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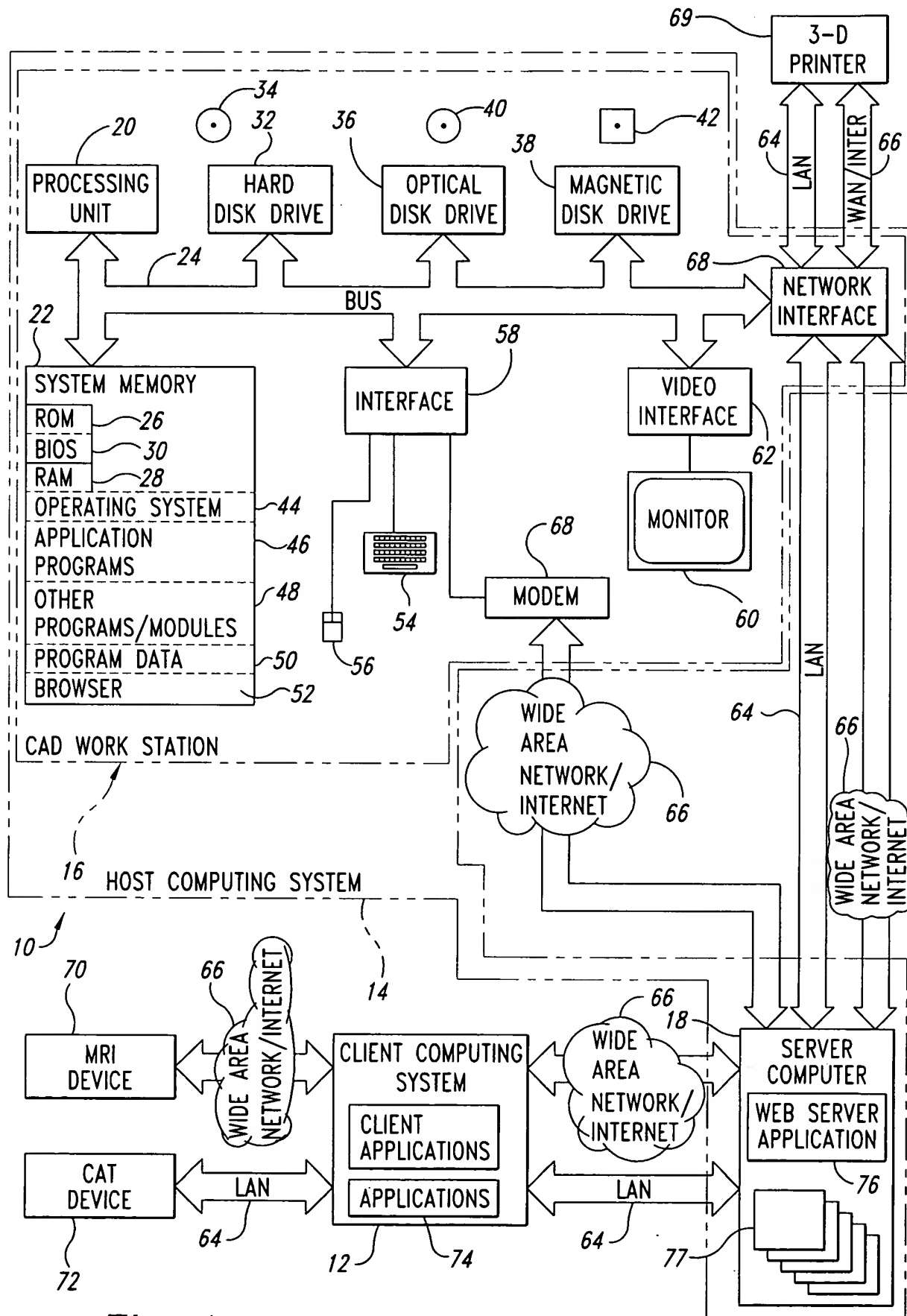


Fig. 1

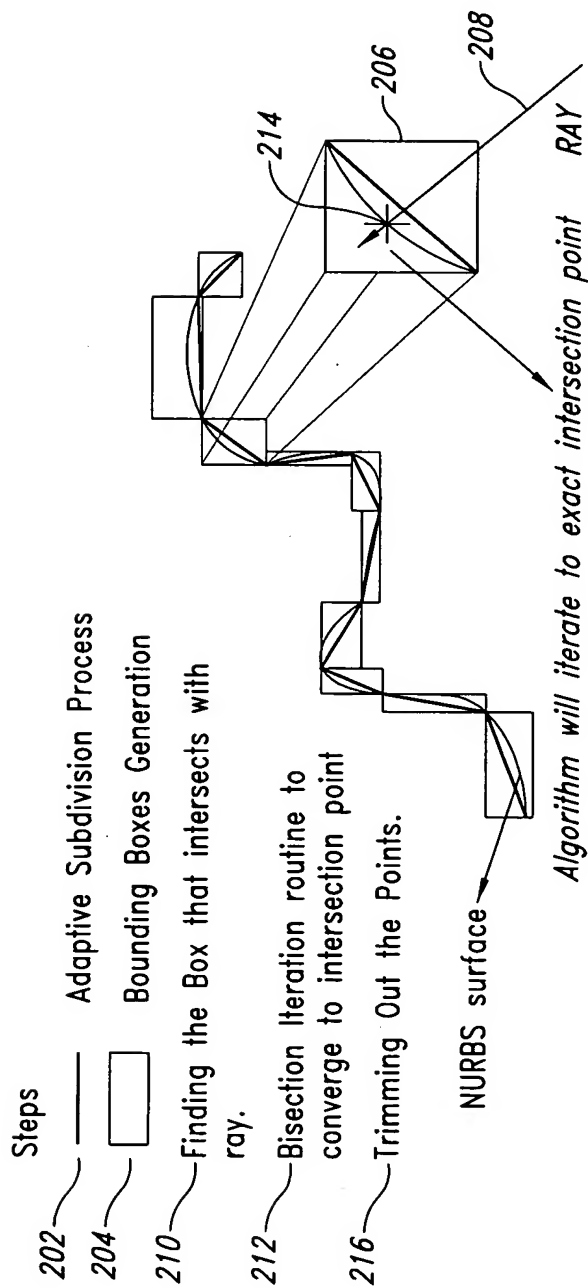


FIG. 2

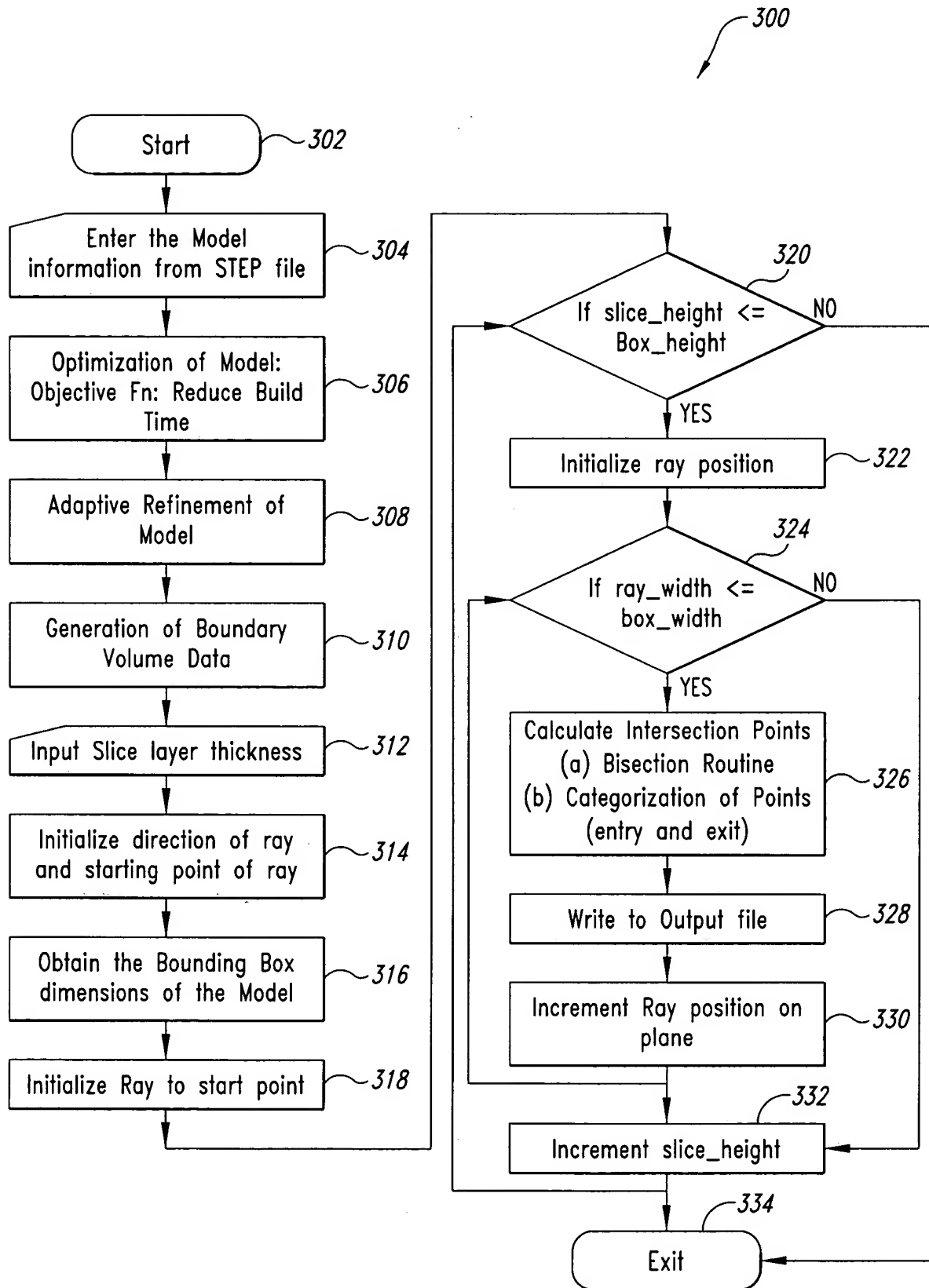


FIG. 3

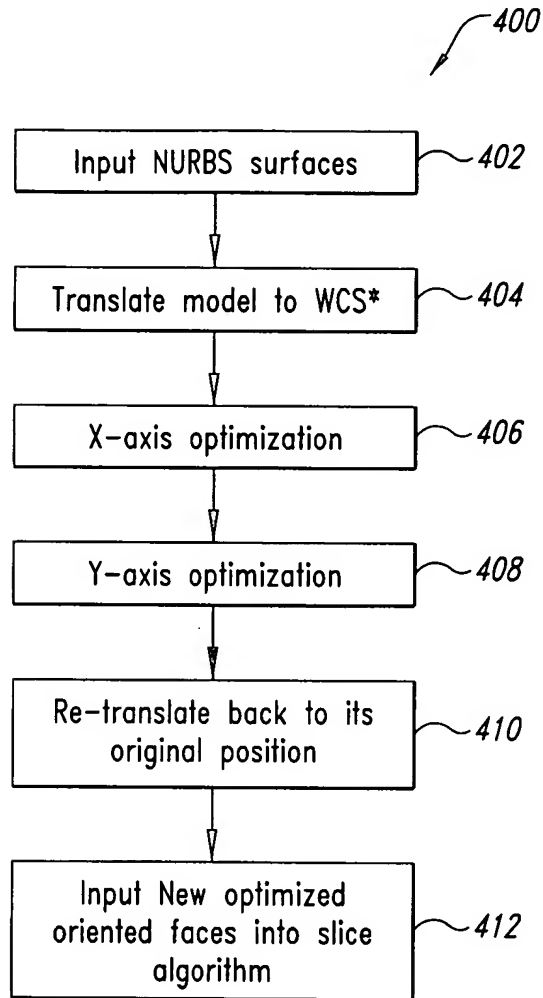


FIG. 4A

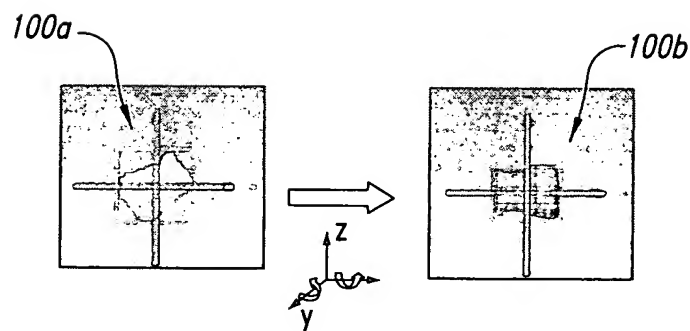
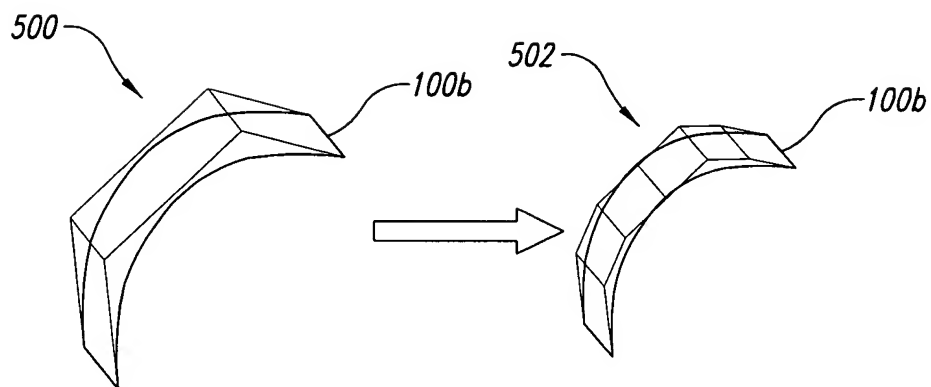


FIG. 4B



*FIG. 5*

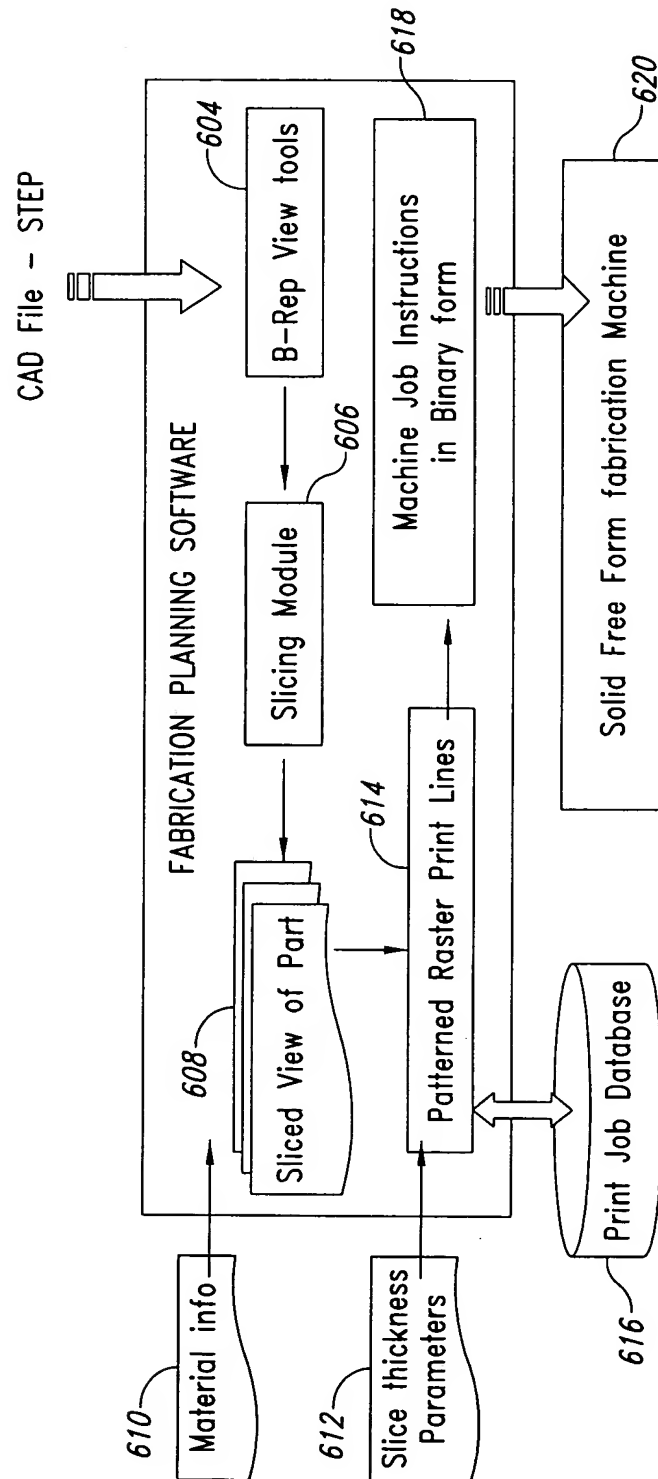
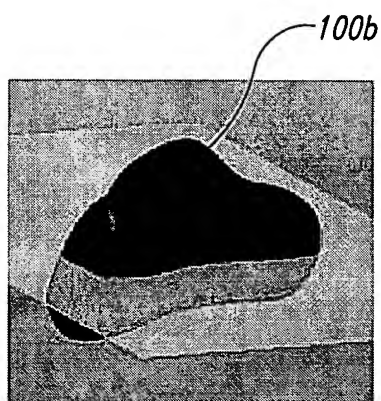


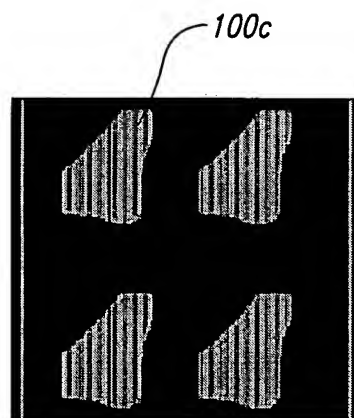
FIG. 6

Title: APPARATUS, METHOD AND ARTICLE FOR DIRECT SLICING OF STEP BASED  
NURBS MODELS FOR SOLID FREEFORM FABRICATION

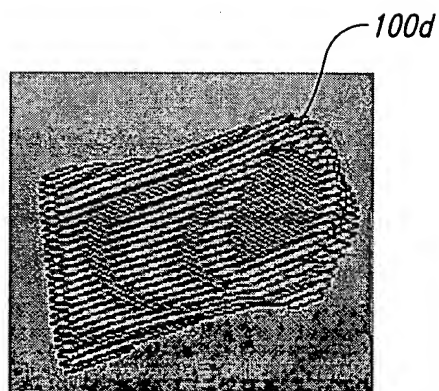
Inventor(s): Thomas J. Bradbury et al. Express Mail No. EV449557458US Docket No. 900122.466



*FIG. 7A*

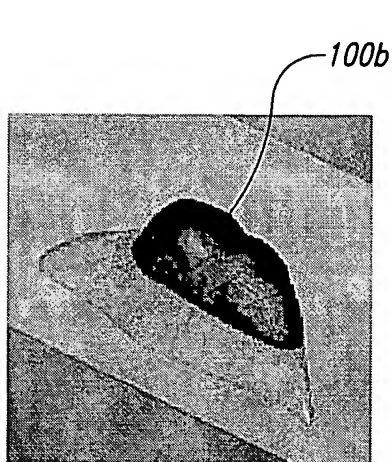


*FIG. 7B*

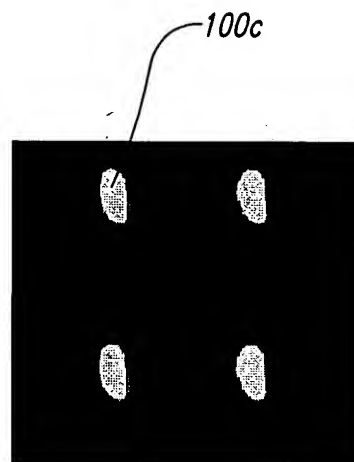


*FIG. 7C*

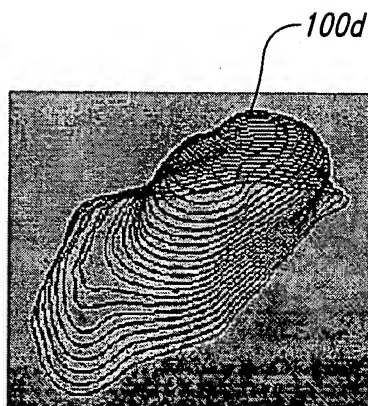




*FIG. 8A*



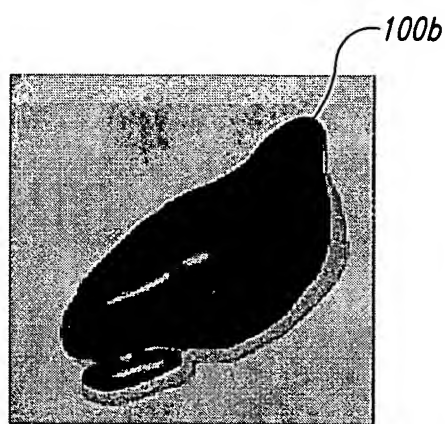
*FIG. 8B*



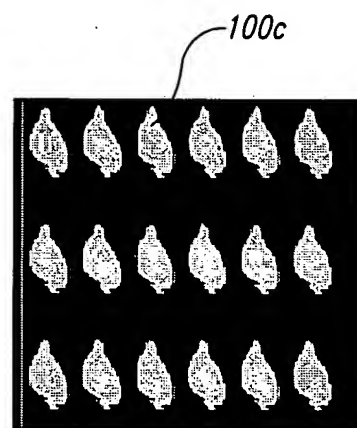
*FIG. 8C*

Title: APPARATUS, METHOD AND ARTICLE FOR DIRECT SLICING OF STEP BASED  
NURBS MODELS FOR SOLID FREEFORM FABRICATION

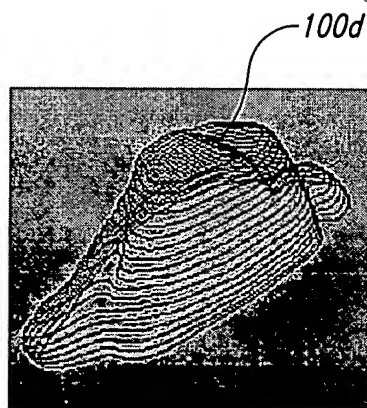
Inventor(s): Thomas J. Bradbury et al. Express Mail No. EV449557458US Docket No. 900122.466



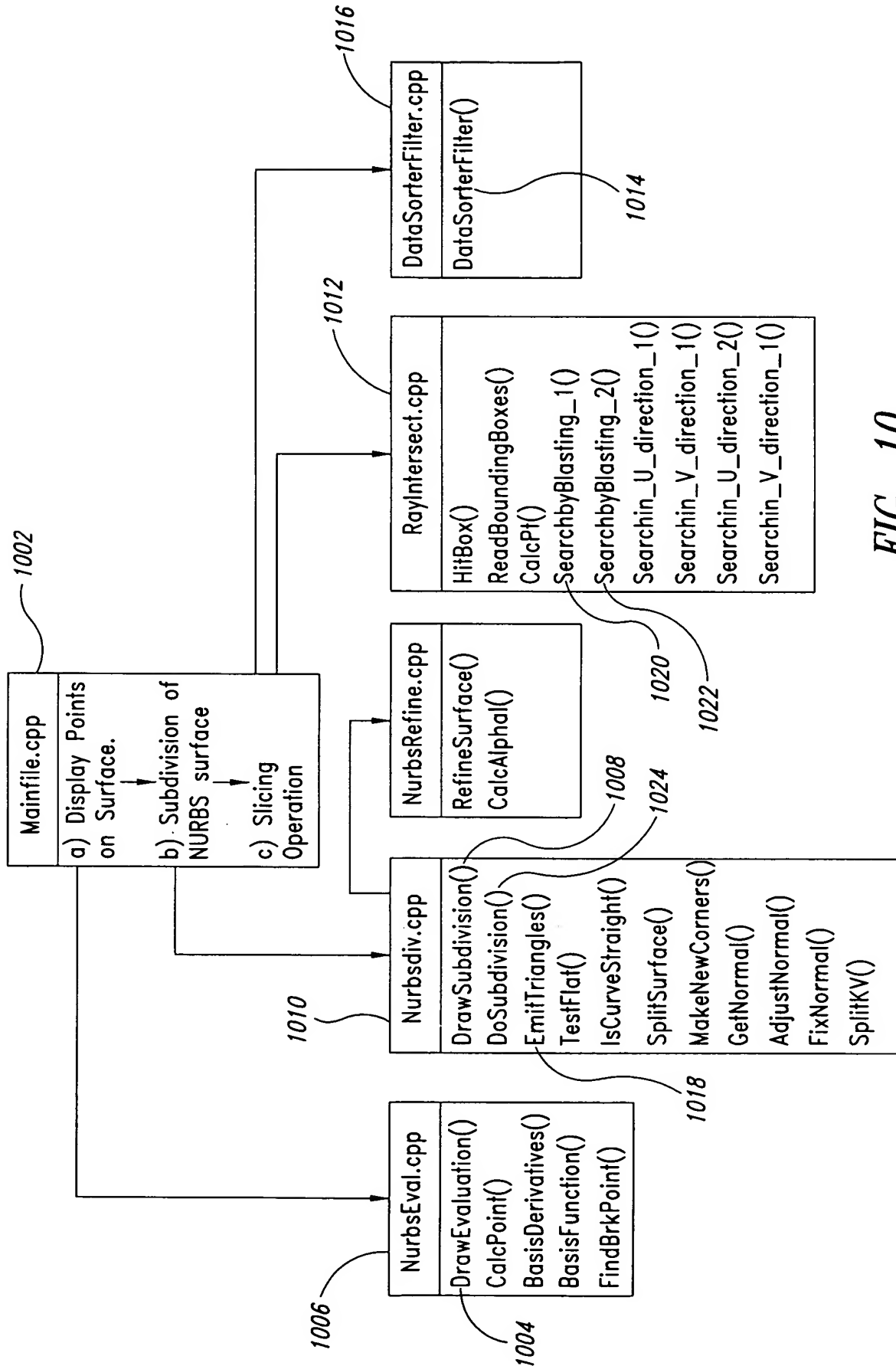
*FIG. 9A*

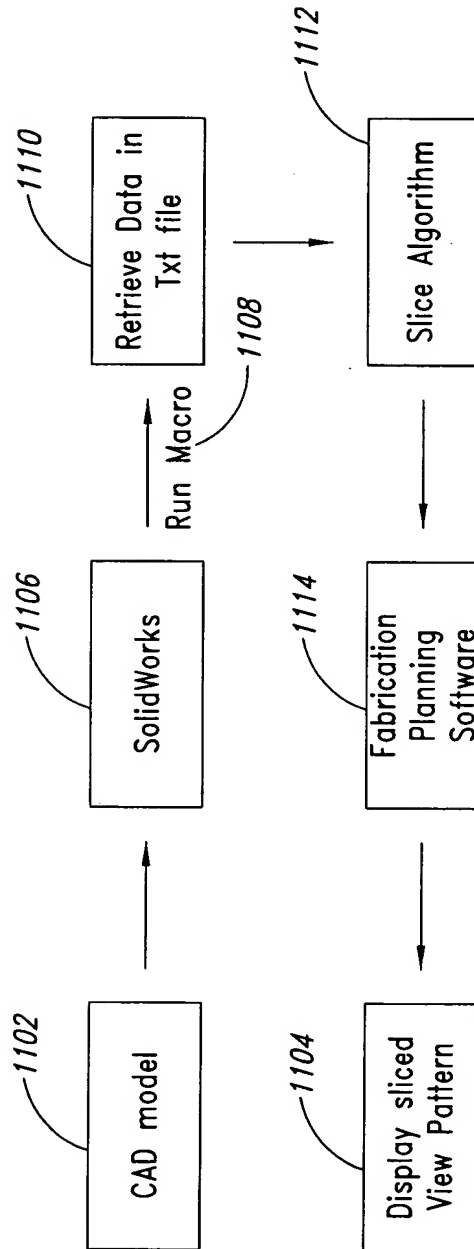


*FIG. 9B*



*FIG. 9C*





*FIG. 11*

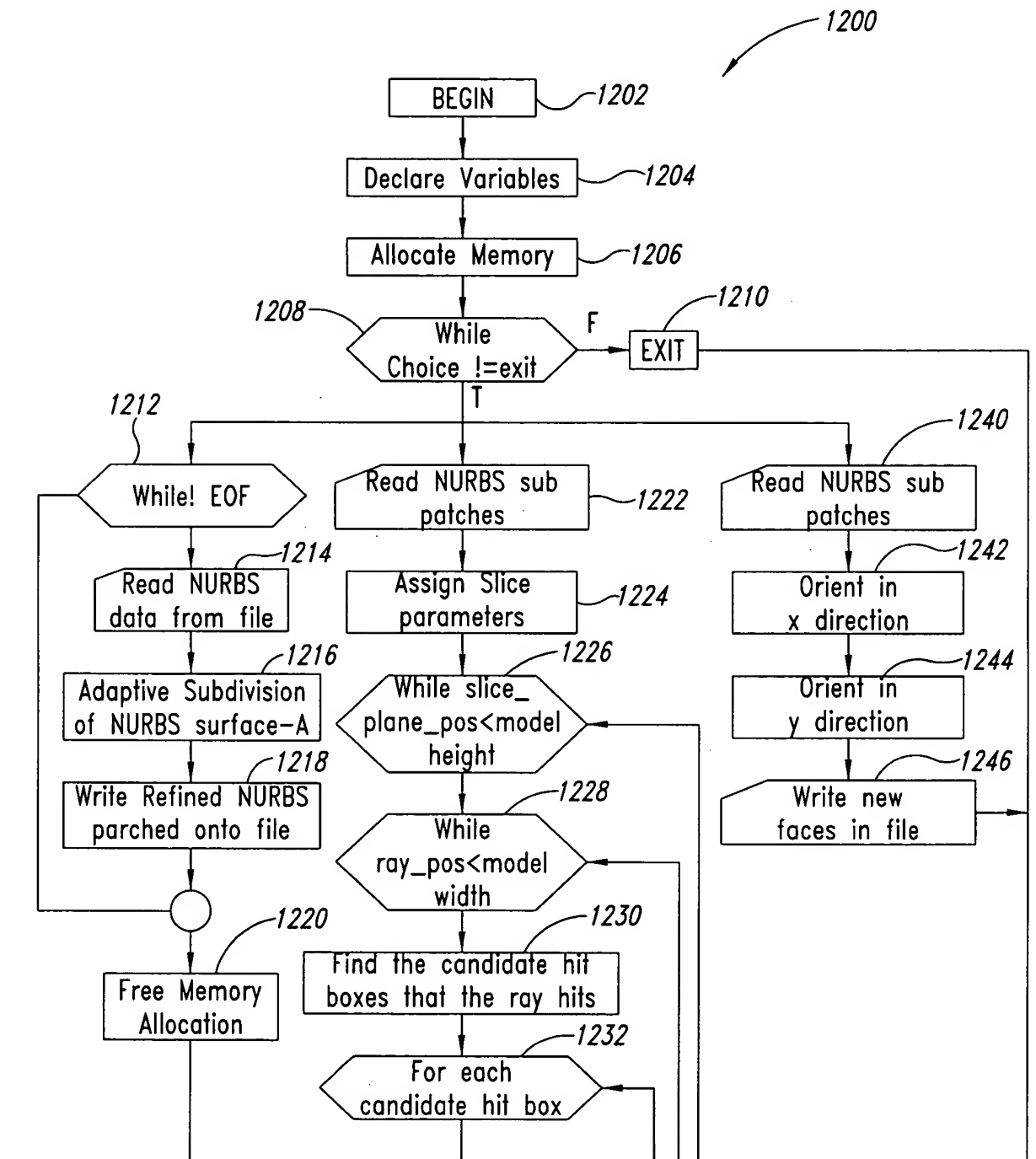
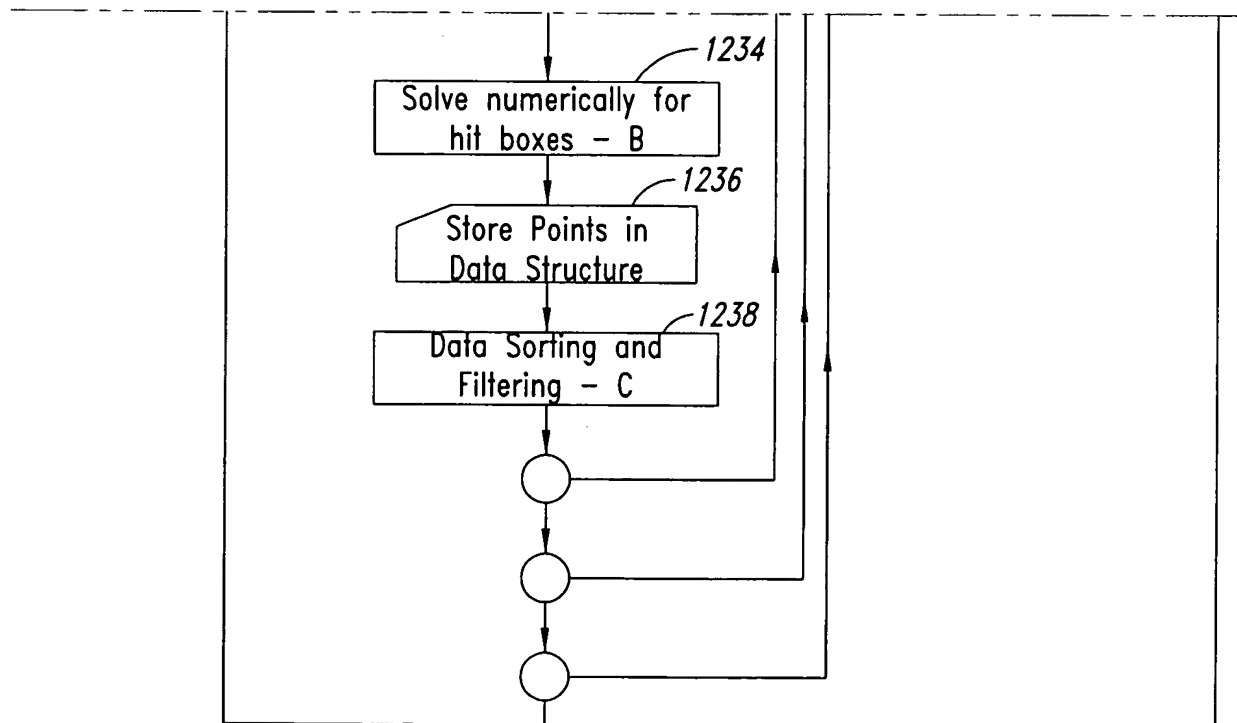


FIG. 12A



*FIG. 12B*

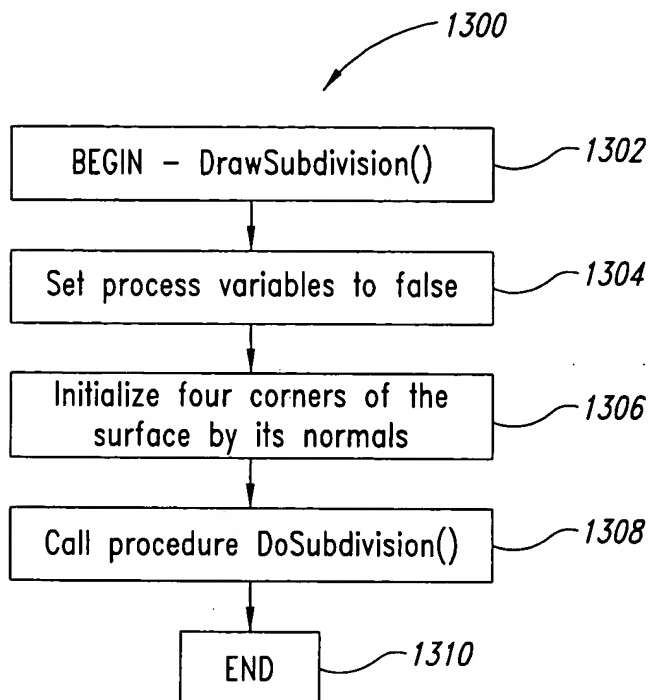


FIG. 13

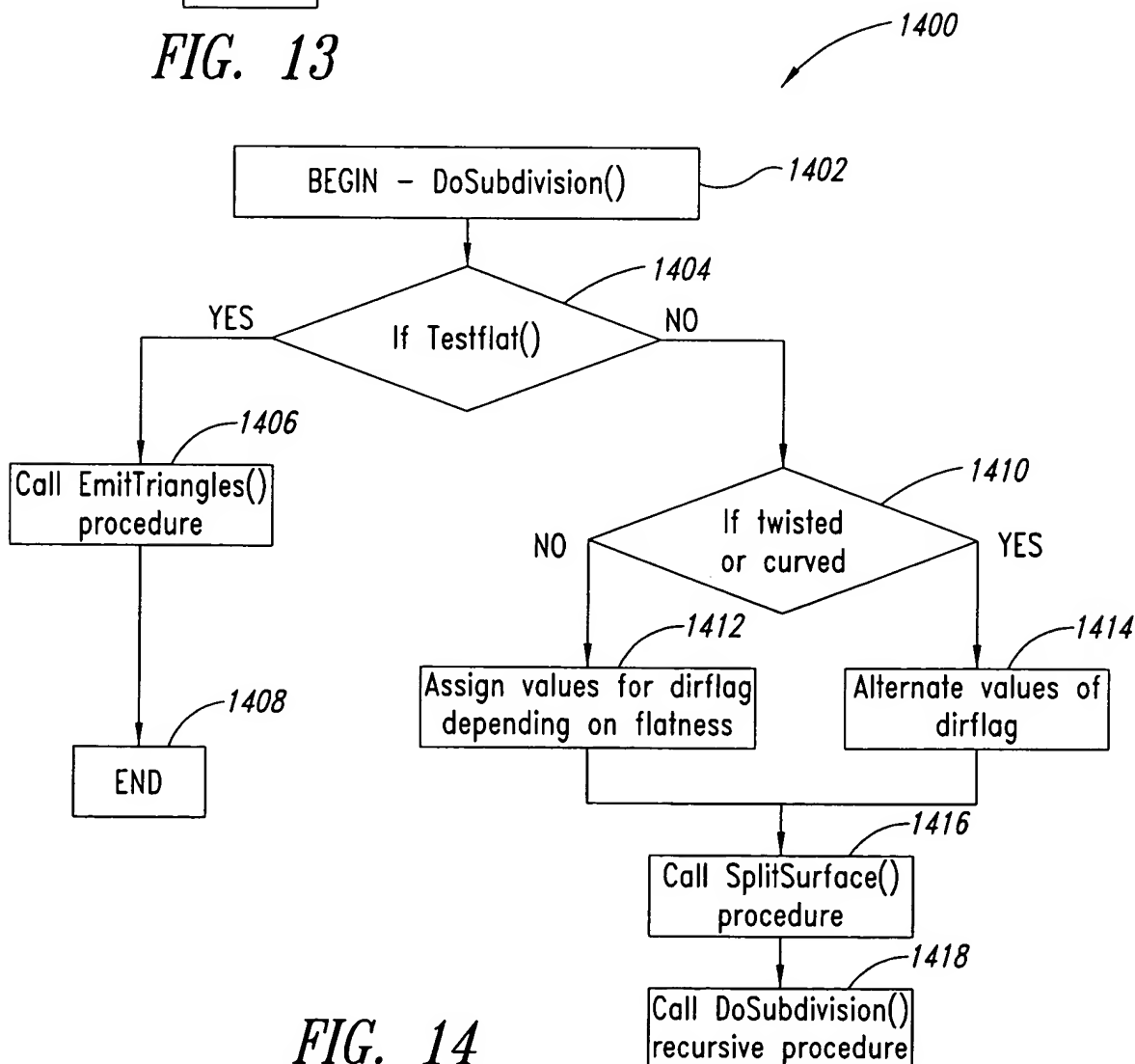
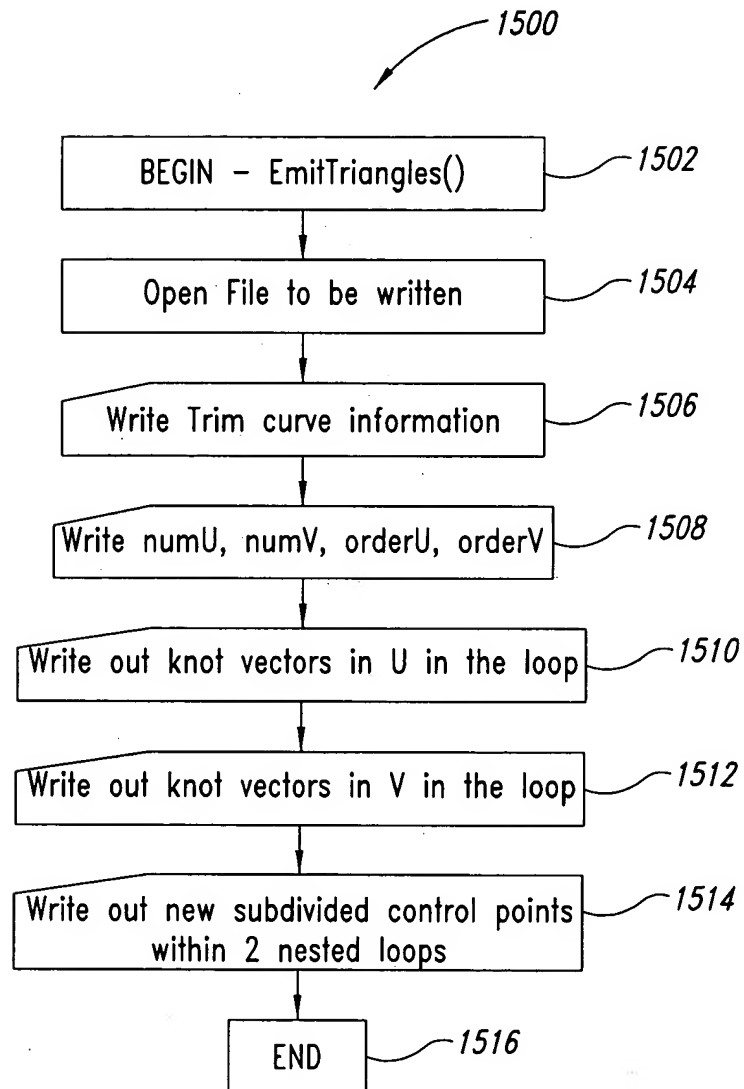


FIG. 14



*FIG. 15*



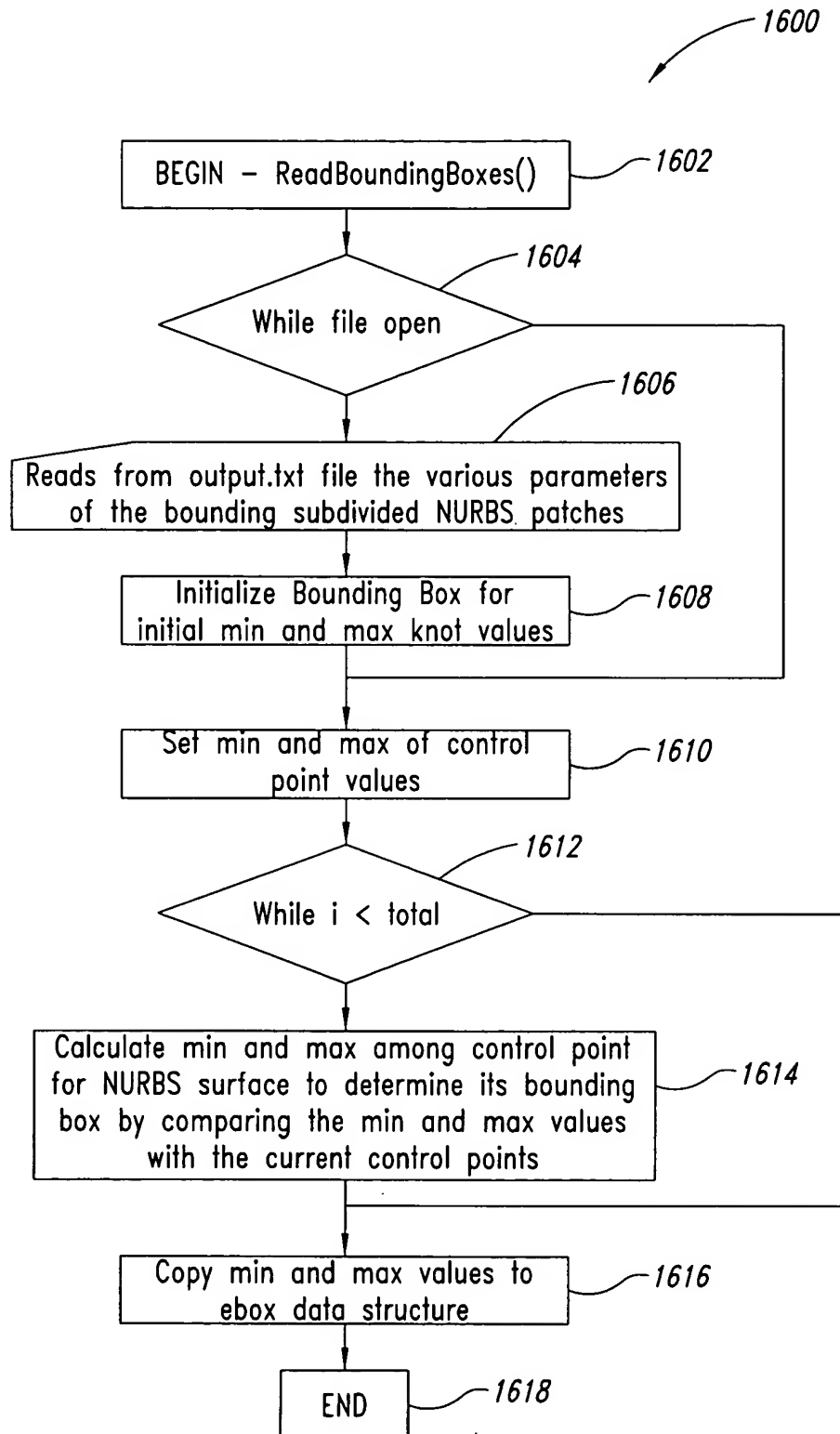


FIG. 16

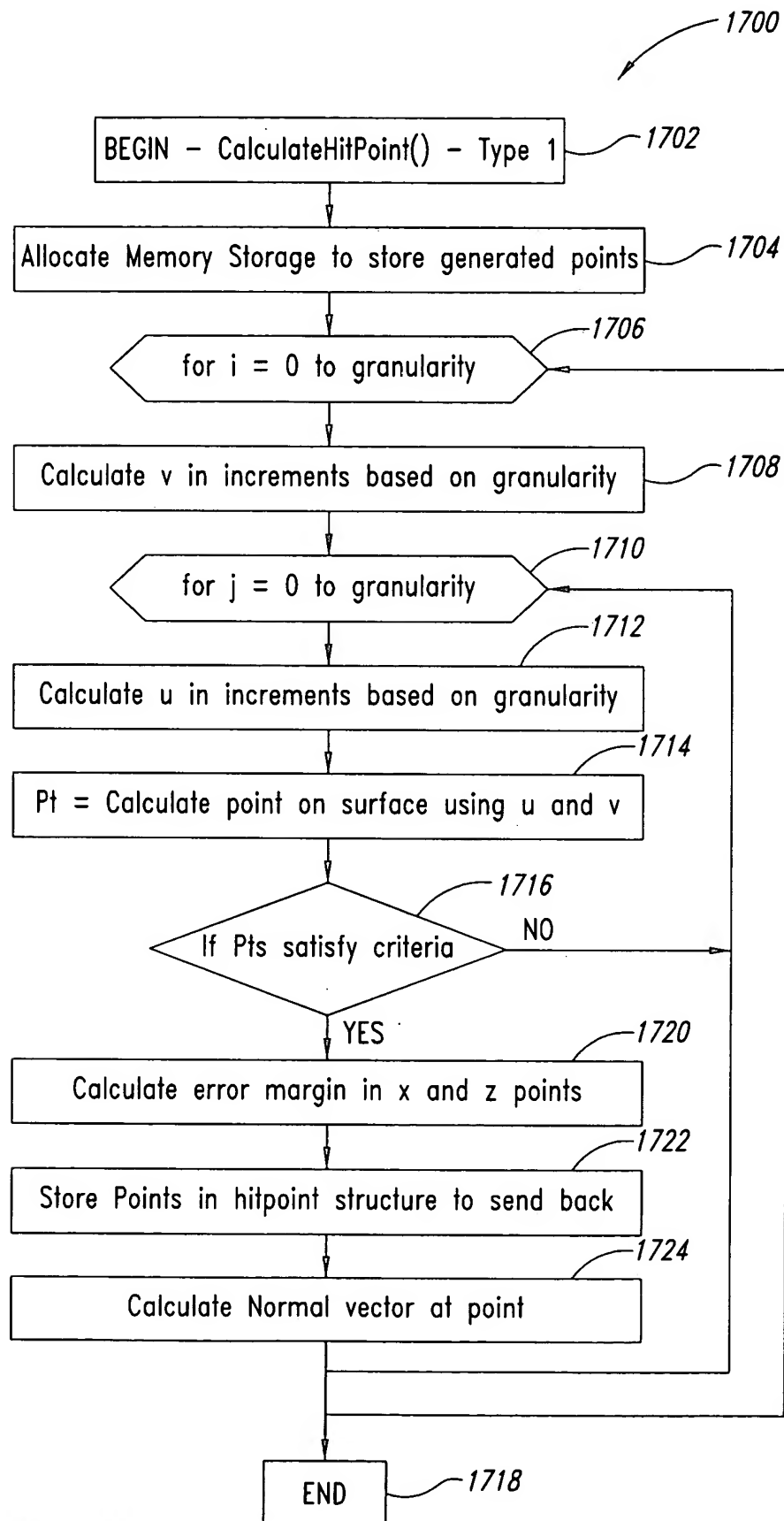


FIG. 17

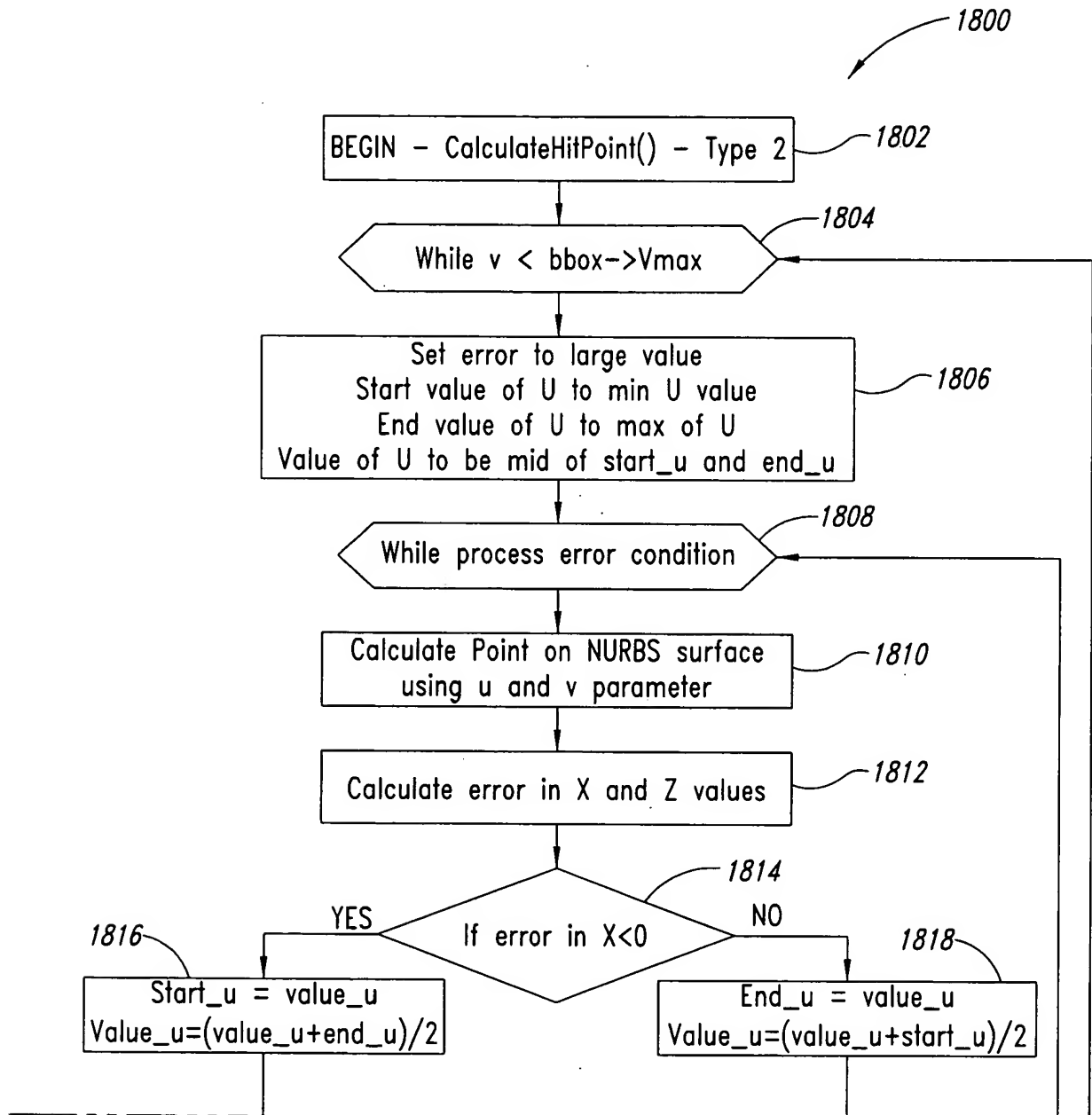
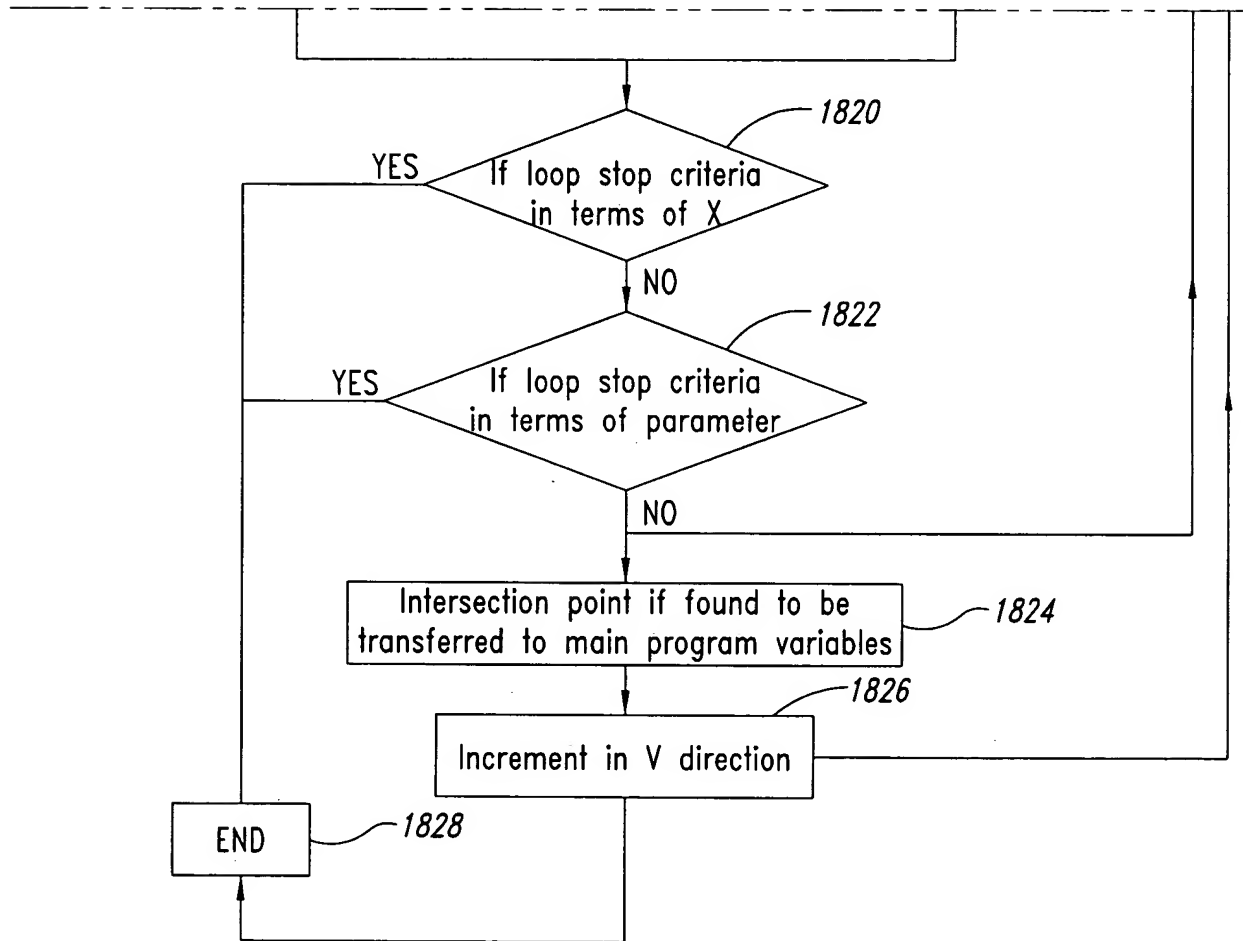


FIG. 18A



*FIG. 18B*

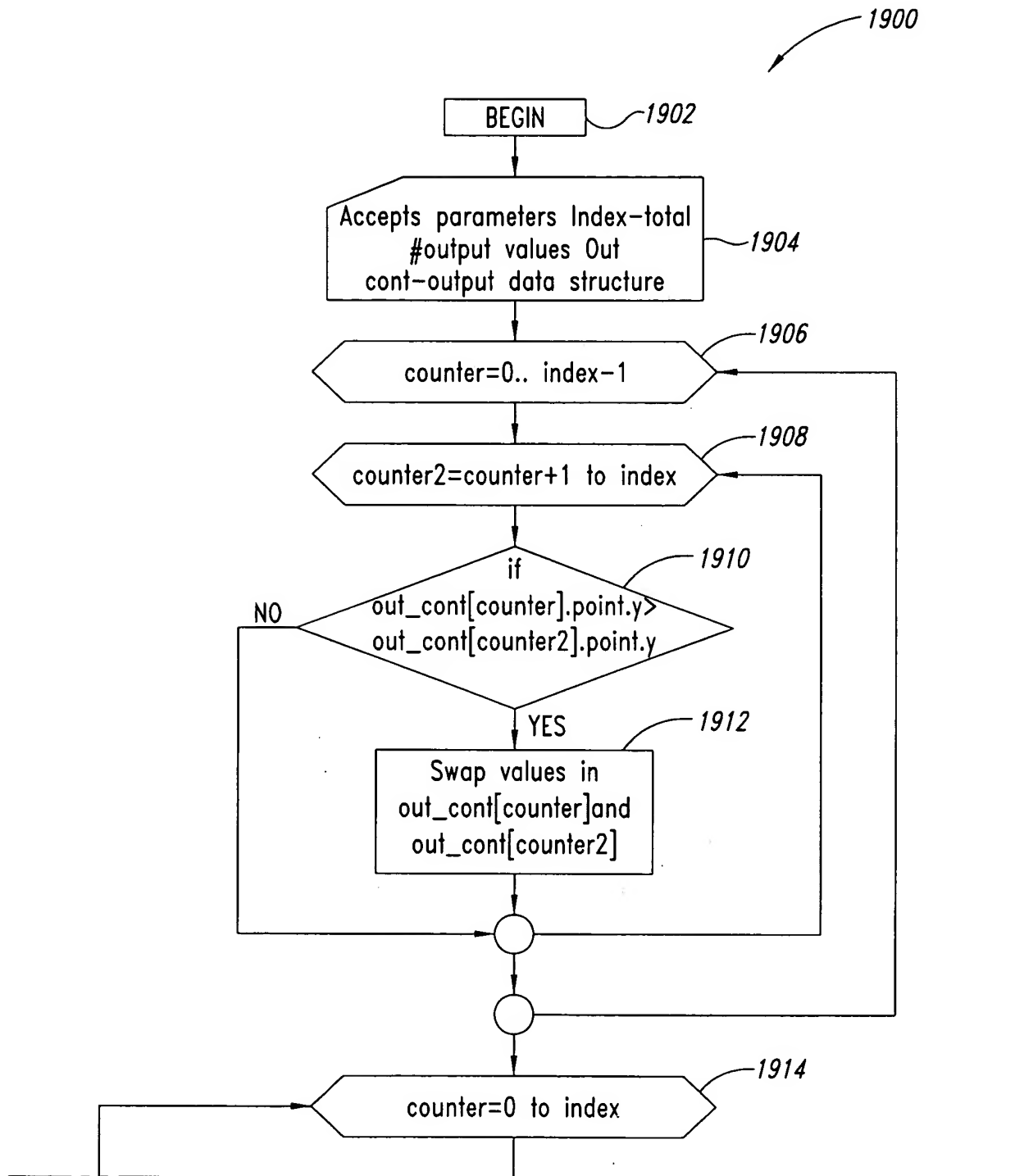
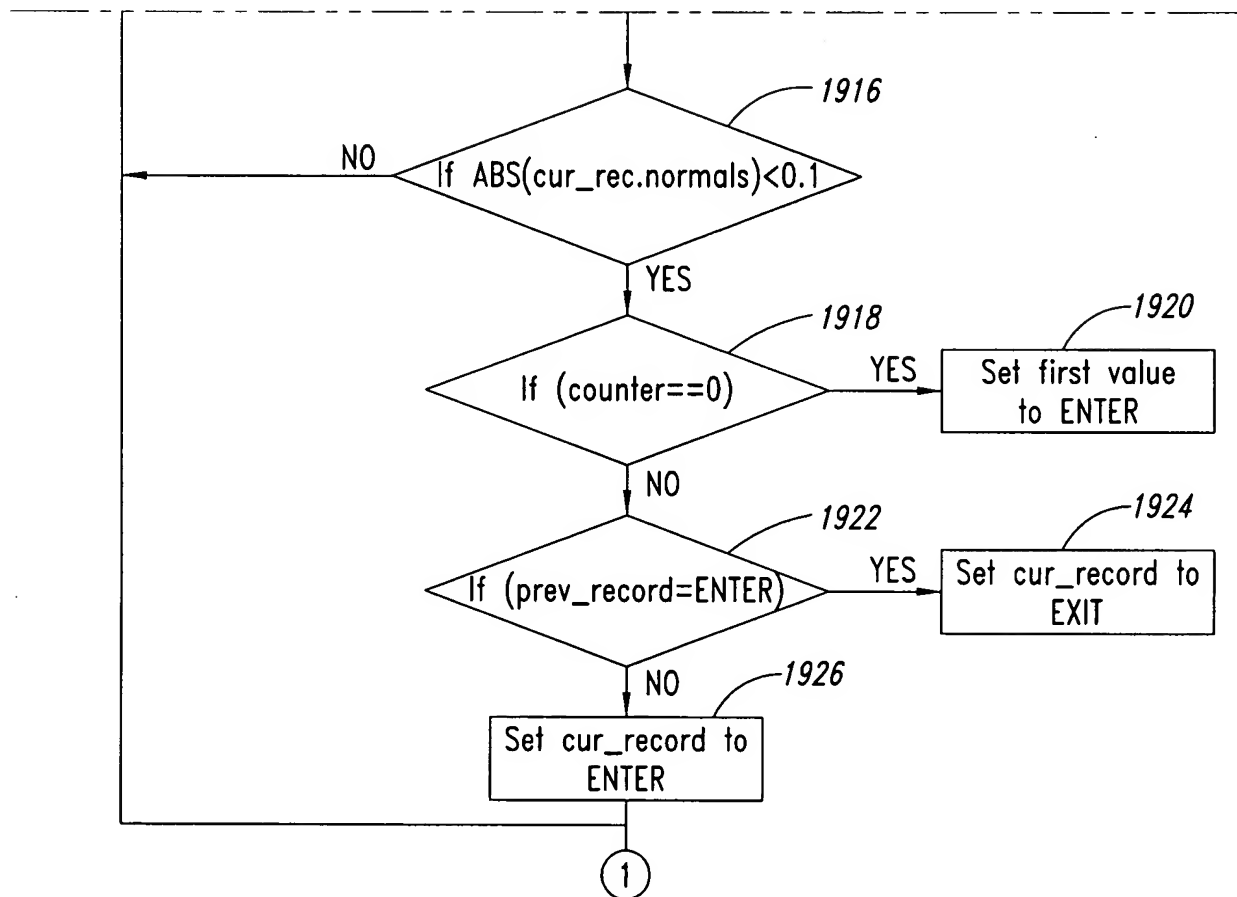


FIG. 19A



*FIG. 19B*

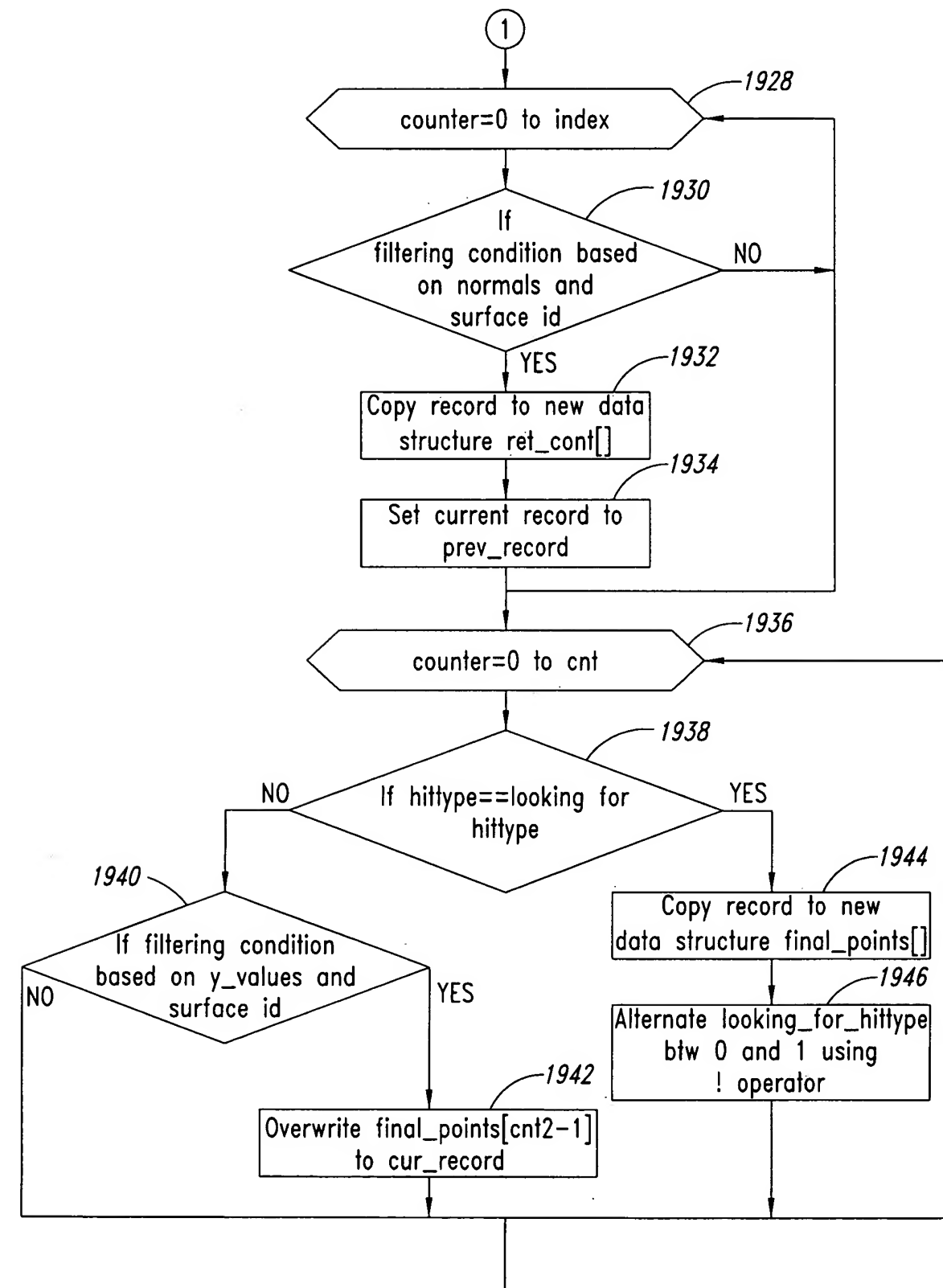
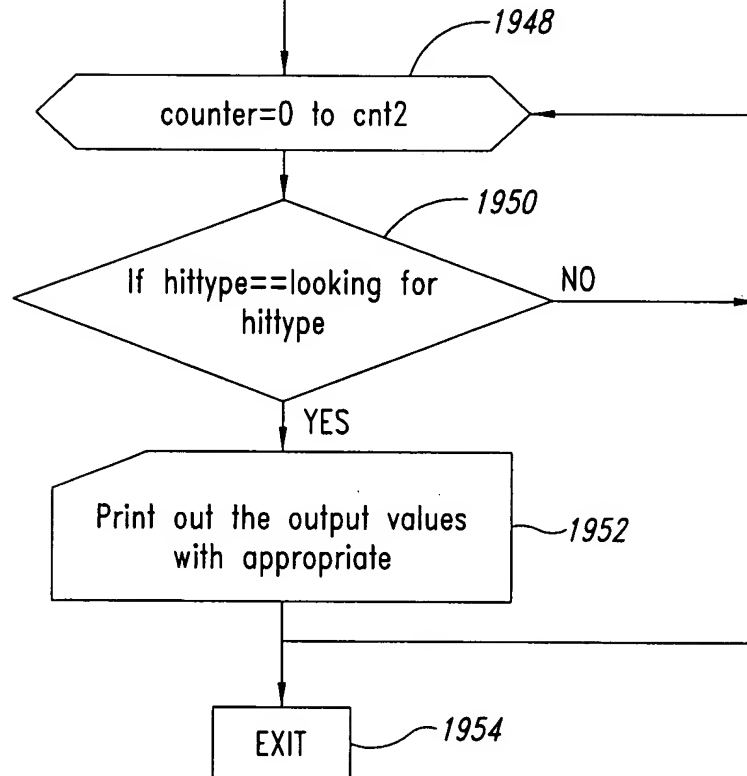


FIG. 19C

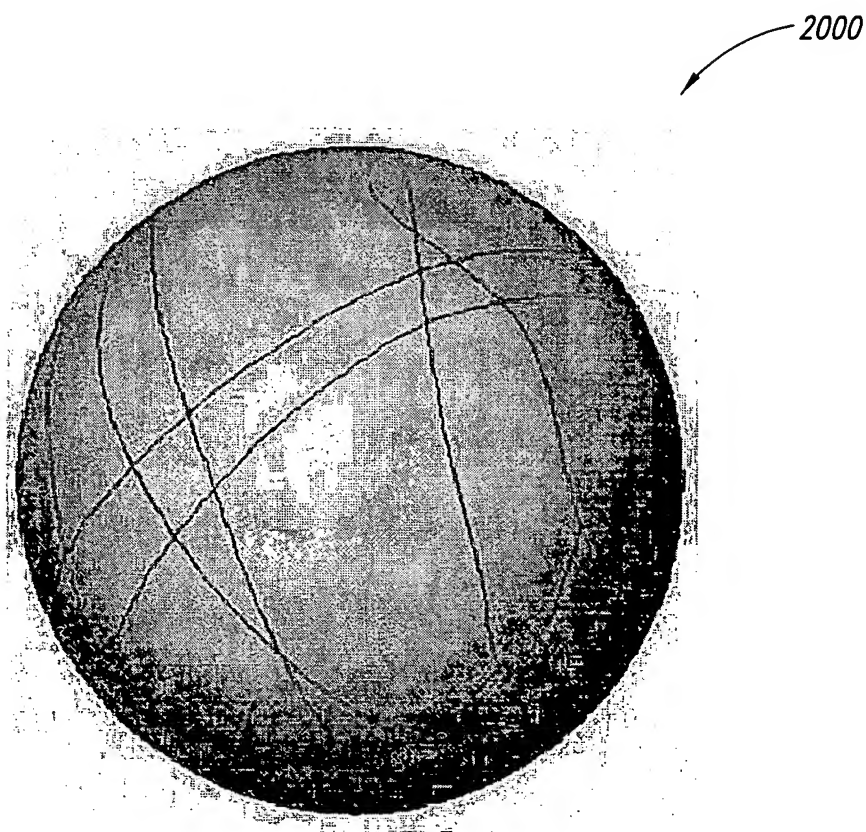


*FIG. 19D*



Title: APPARATUS, METHOD AND ARTICLE FOR DIRECT SLICING OF STEP BASED  
NURBS MODELS FOR SOLID FREEFORM FABRICATION

Inventor(s): Thomas J. Bradbury et al. Express Mail No. EV449557458US Docket No. 900122.466



*FIG. 20*

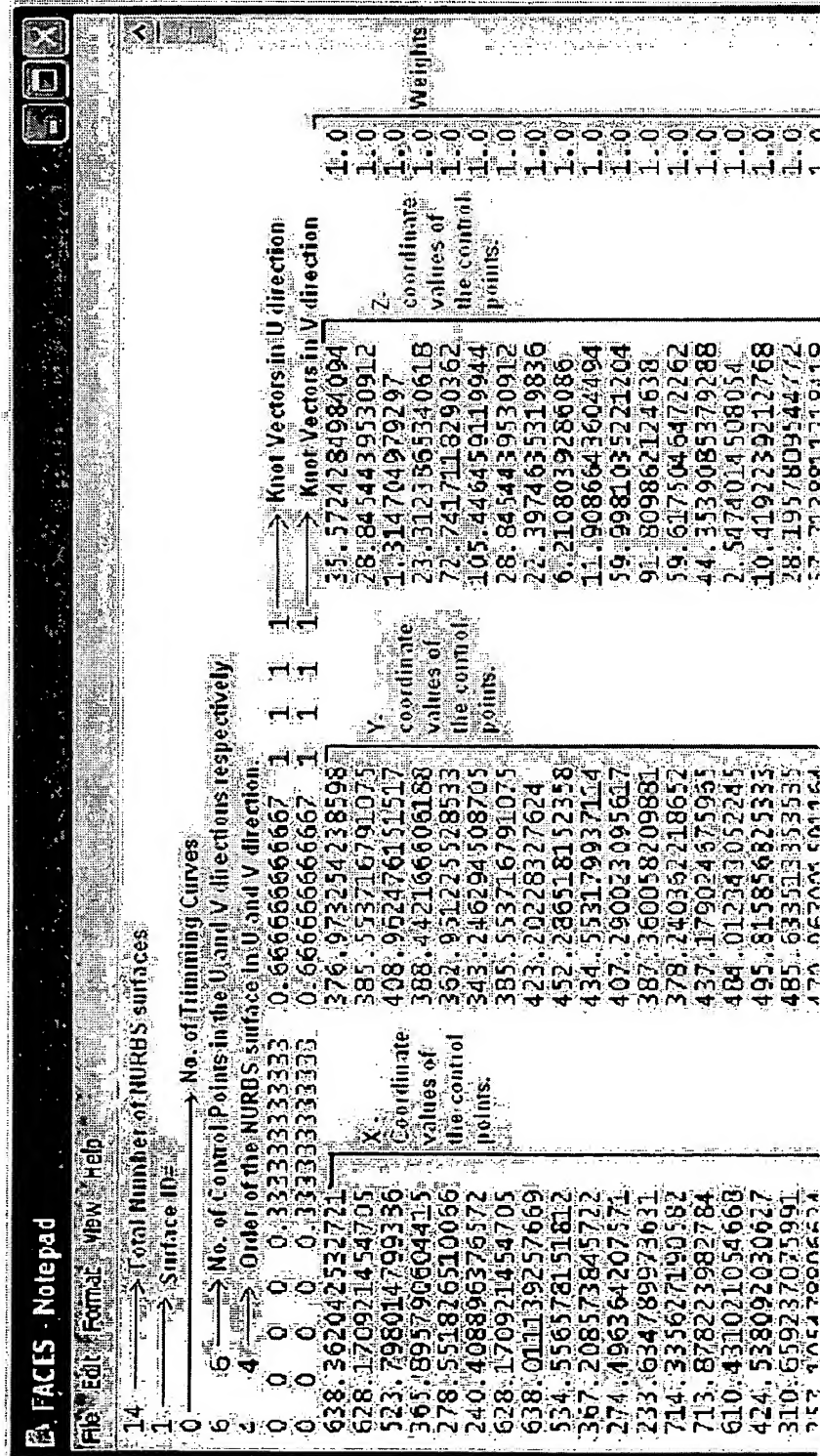


FIG. 21

2200



FIG. 22

Title: APPARATUS, METHOD AND ARTICLE FOR DIRECT SLICING OF STEP BASED  
NURBS MODELS FOR SOLID FREEFORM FABRICATION

Inventor(s): Thomas J. Bradbury et al. Express Mail No. EV449557458US Docket No. 900122.466

2300

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***** W E L C O M E   I O   S L I C E 2002 *****

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3. Calculate Intersection Points
4. Delete all files
5. Rotate Faces
6. Exit

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Bounding Box Dimensions of Model :0.3459 3.13194 0.524883
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Calculating at height 17.1582 ....
Calculating at height 33.7915 ....
Calculating at height 50.4248 ....
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Calculating at height 83.6915 ....
Calculating at height 100.325 ....

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FIG. 23

Title: APPARATUS, METHOD AND ARTICLE FOR DIRECT SLICING OF STEP BASED  
NURBS MODELS FOR SOLID FREEFORM FABRICATION

Inventor(s): Thomas J. Bradbury et al. Express Mail No. EV449557458US Docket No. 900122.466

2400

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626.143, 369.569, 33.7915, 0, 0, 0, 0, 1, FACE ENTER

```

FIG. 24

Title: APPARATUS, METHOD AND ARTICLE FOR DIRECT SLICING OF STEP BASED  
NURBS MODELS FOR SOLID FREEFORM FABRICATION

Inventor(s): Thomas J. Bradbury et al. Express Mail No. EV449557458US Docket No. 900122.466

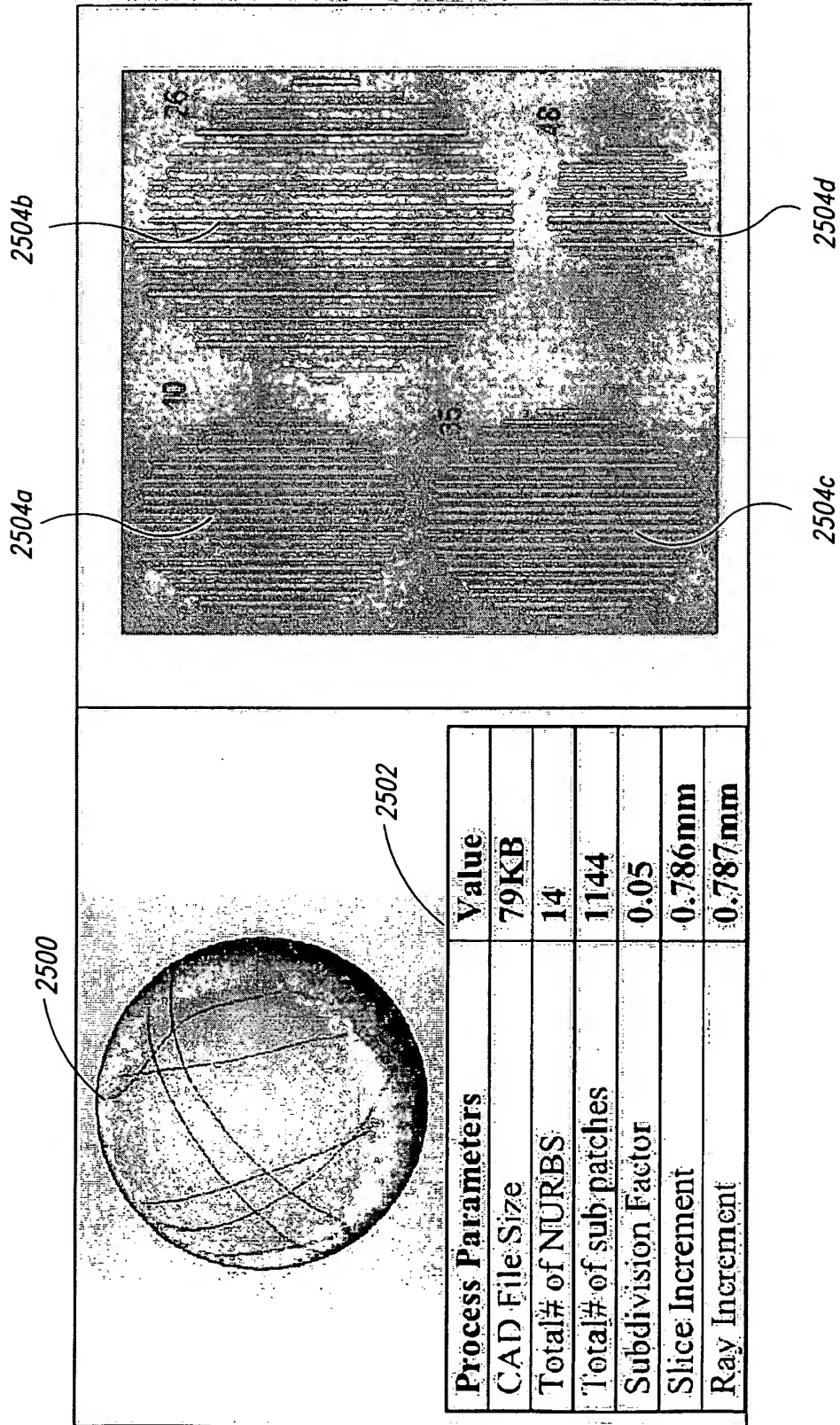


FIG. 25B

FIG. 25A

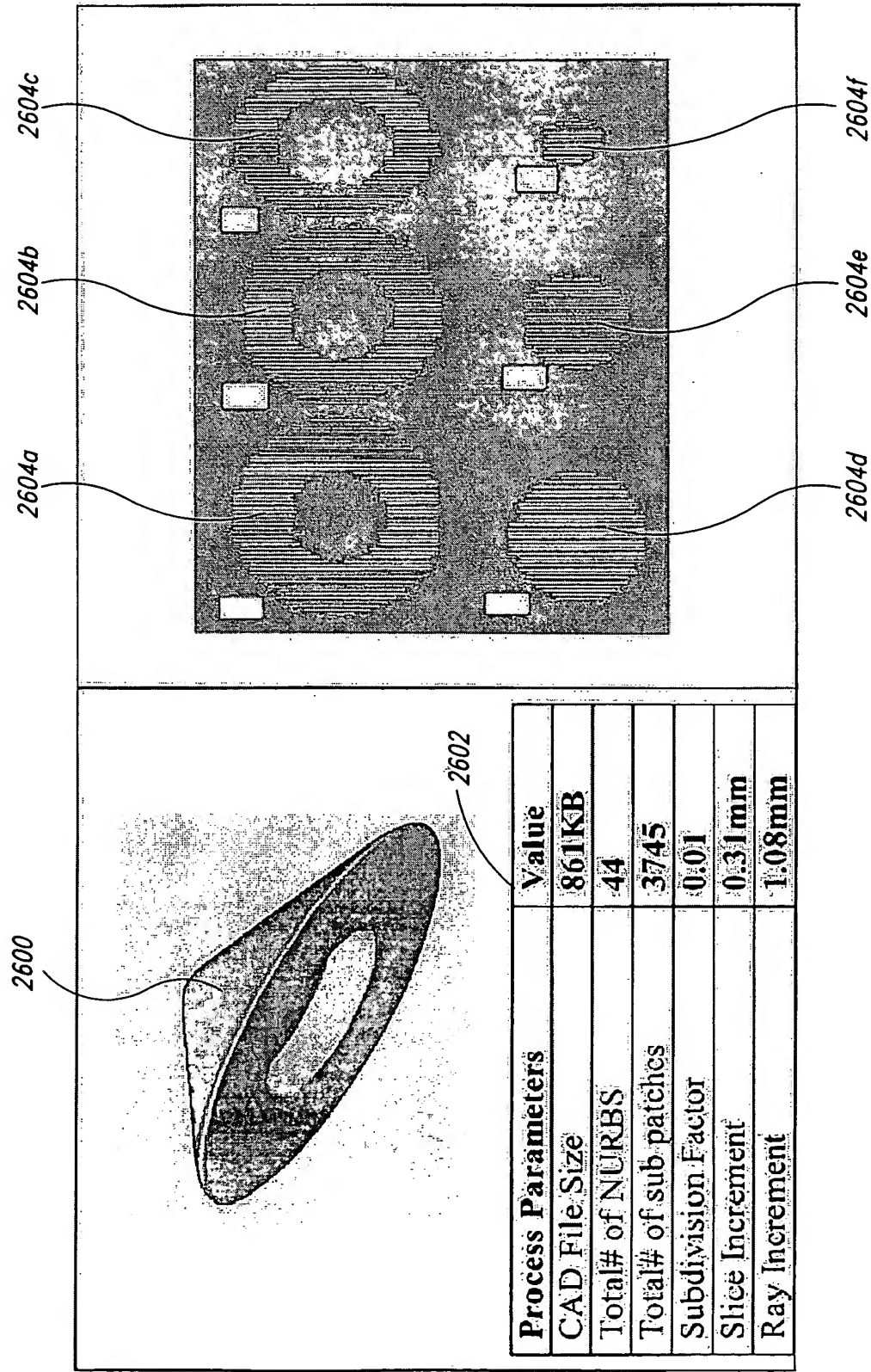


FIG. 26A

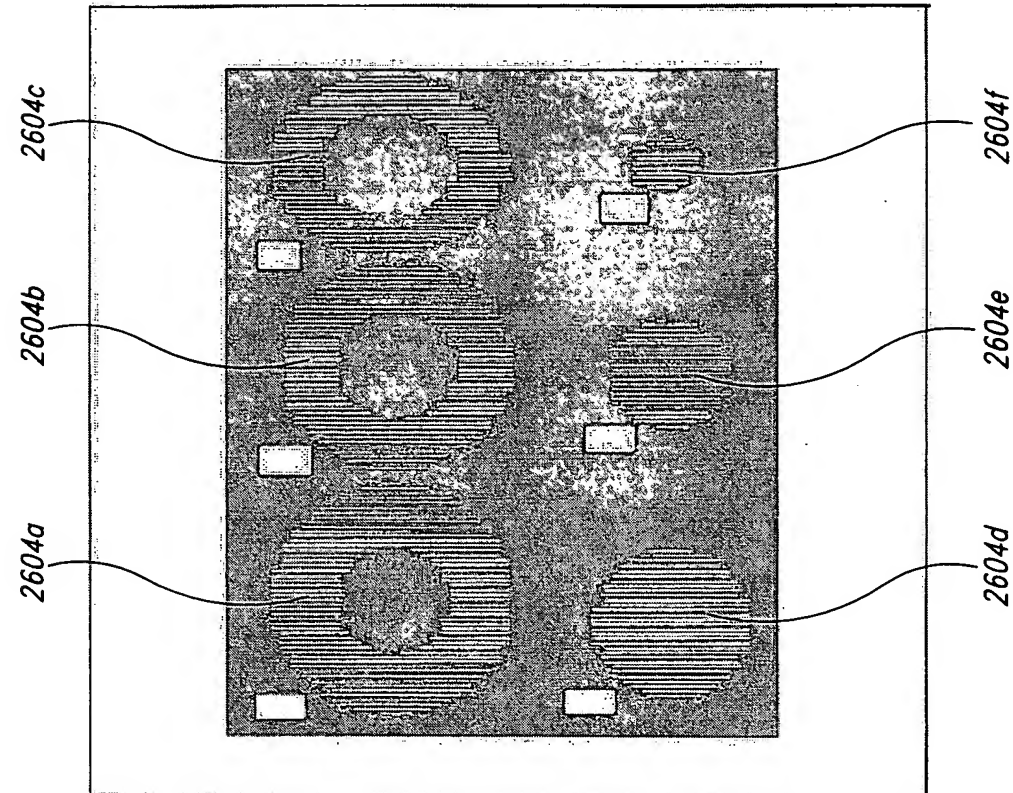


FIG. 26B



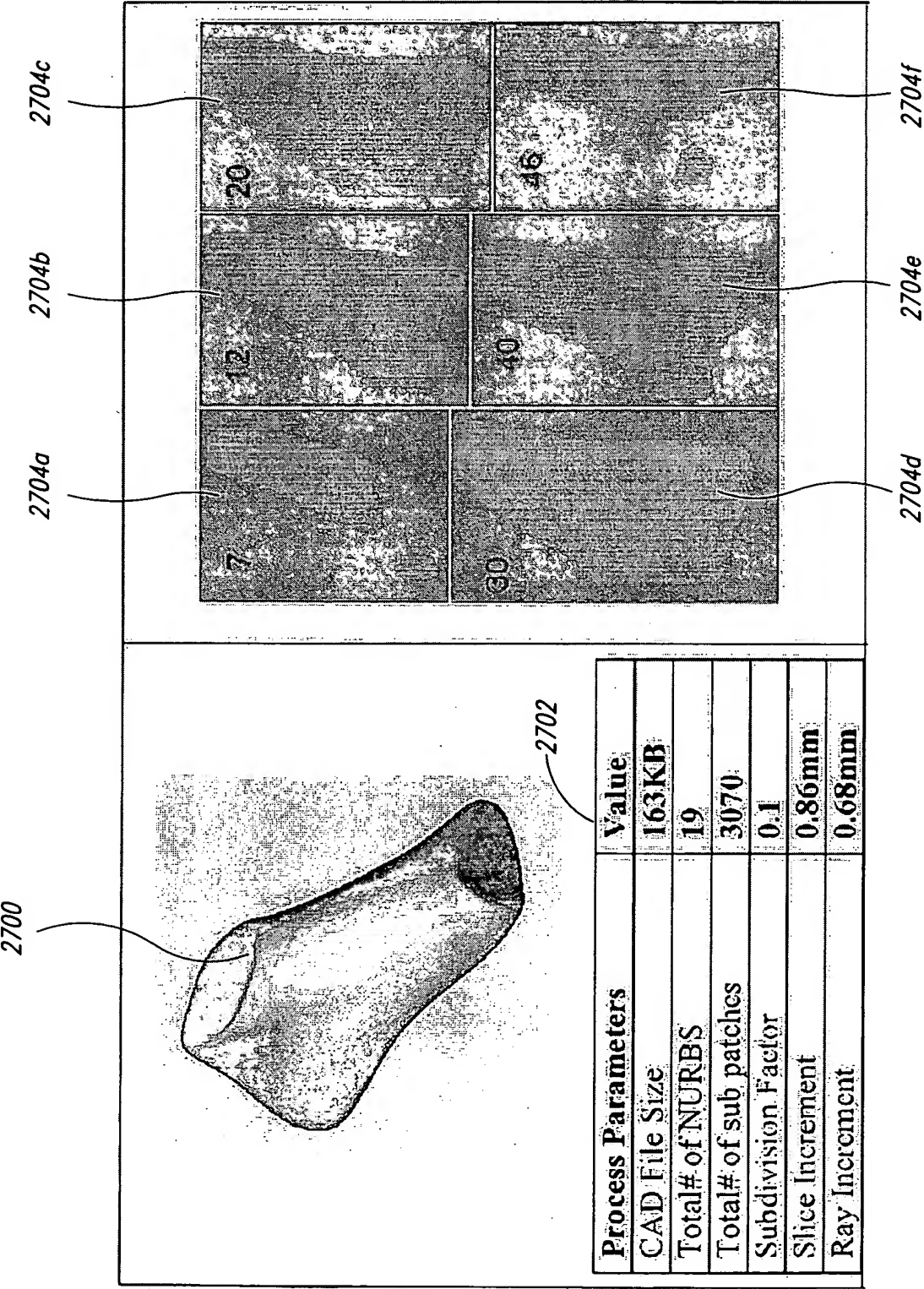


FIG. 27A

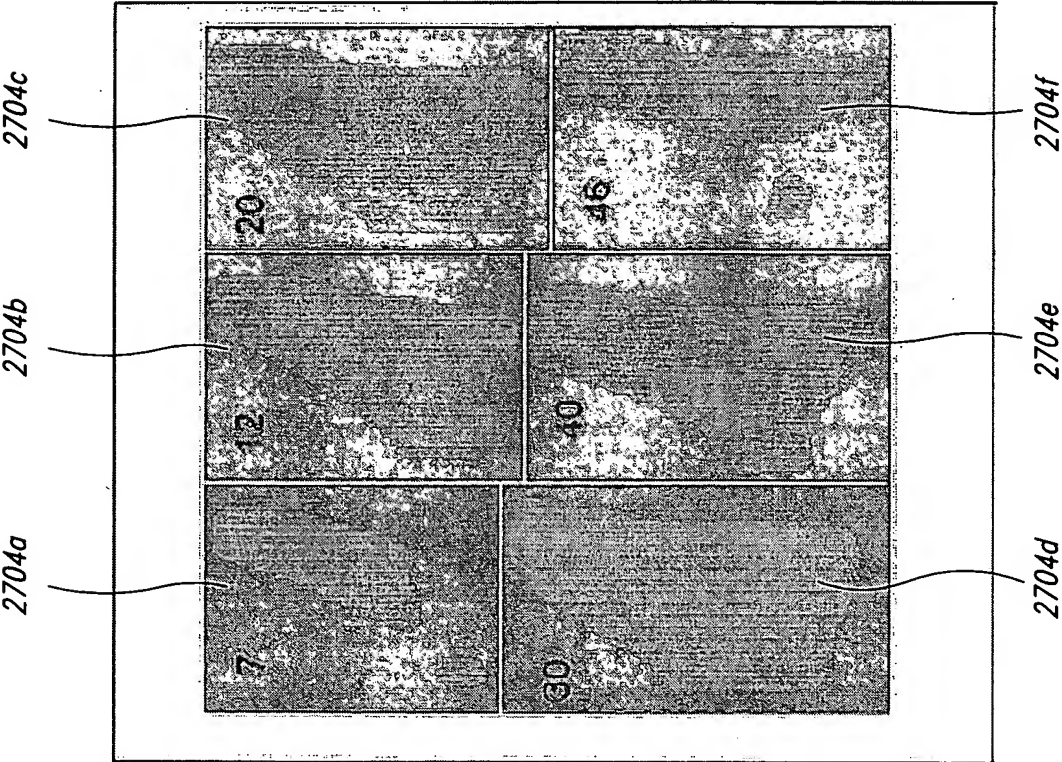
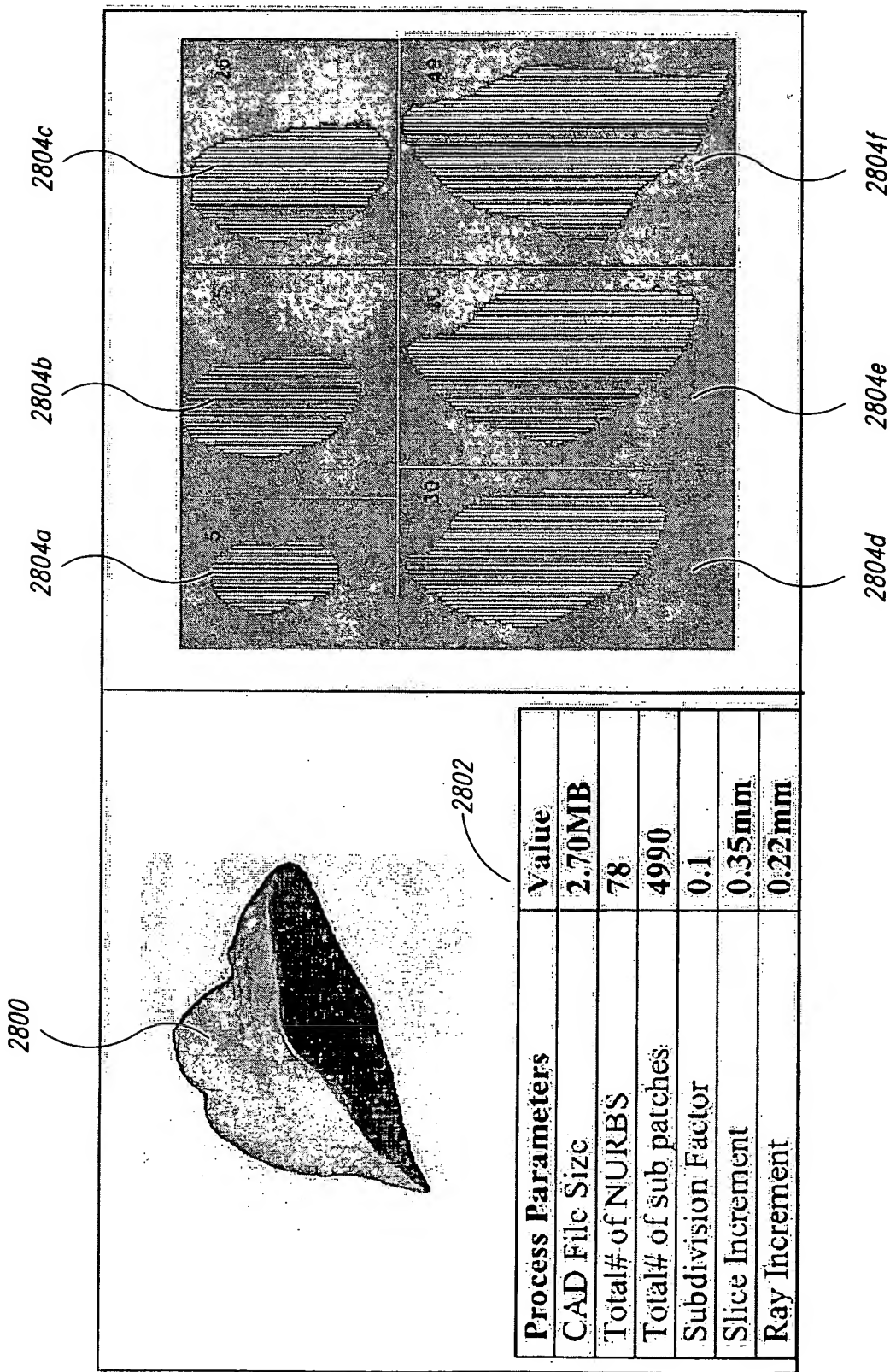


FIG. 27B





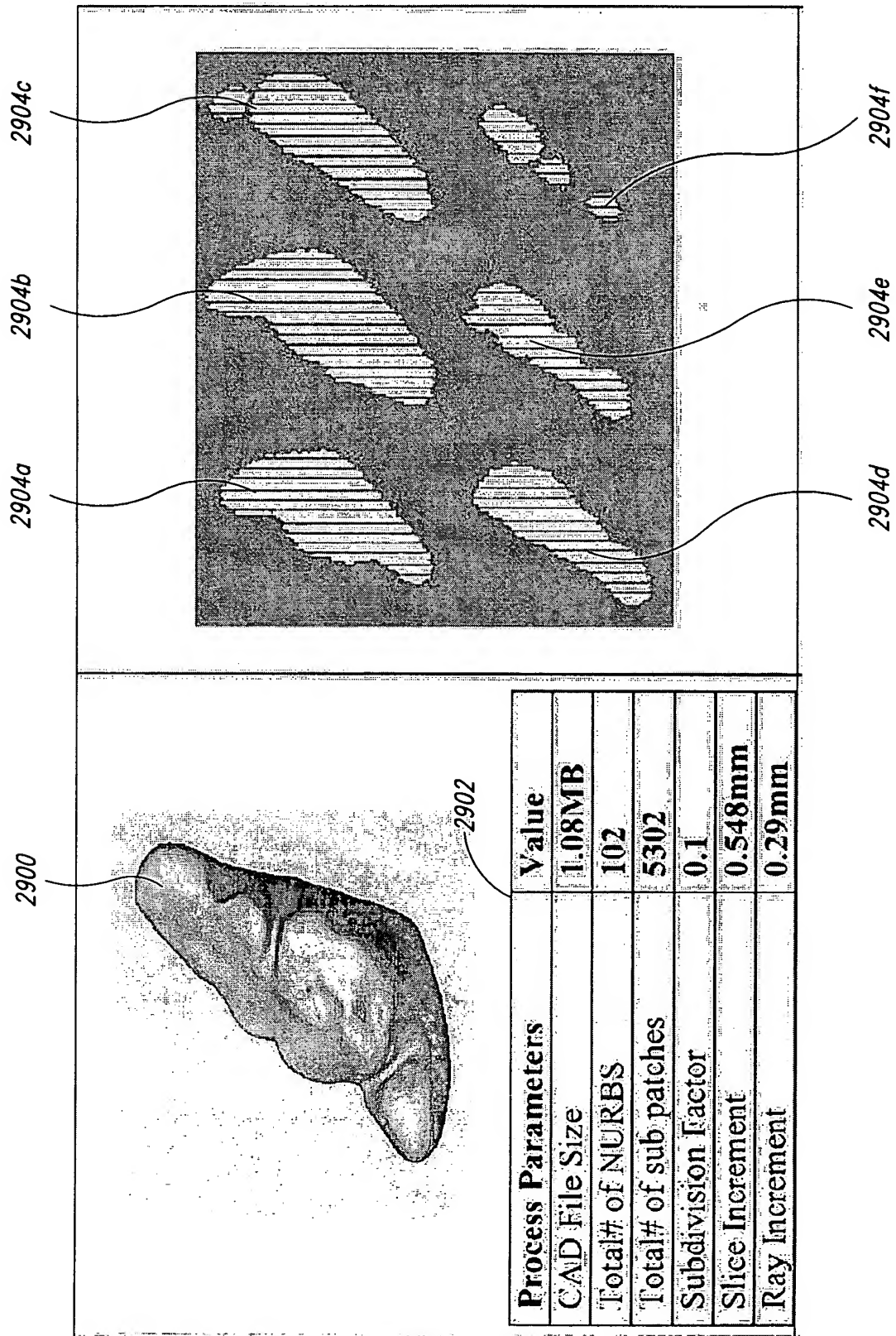
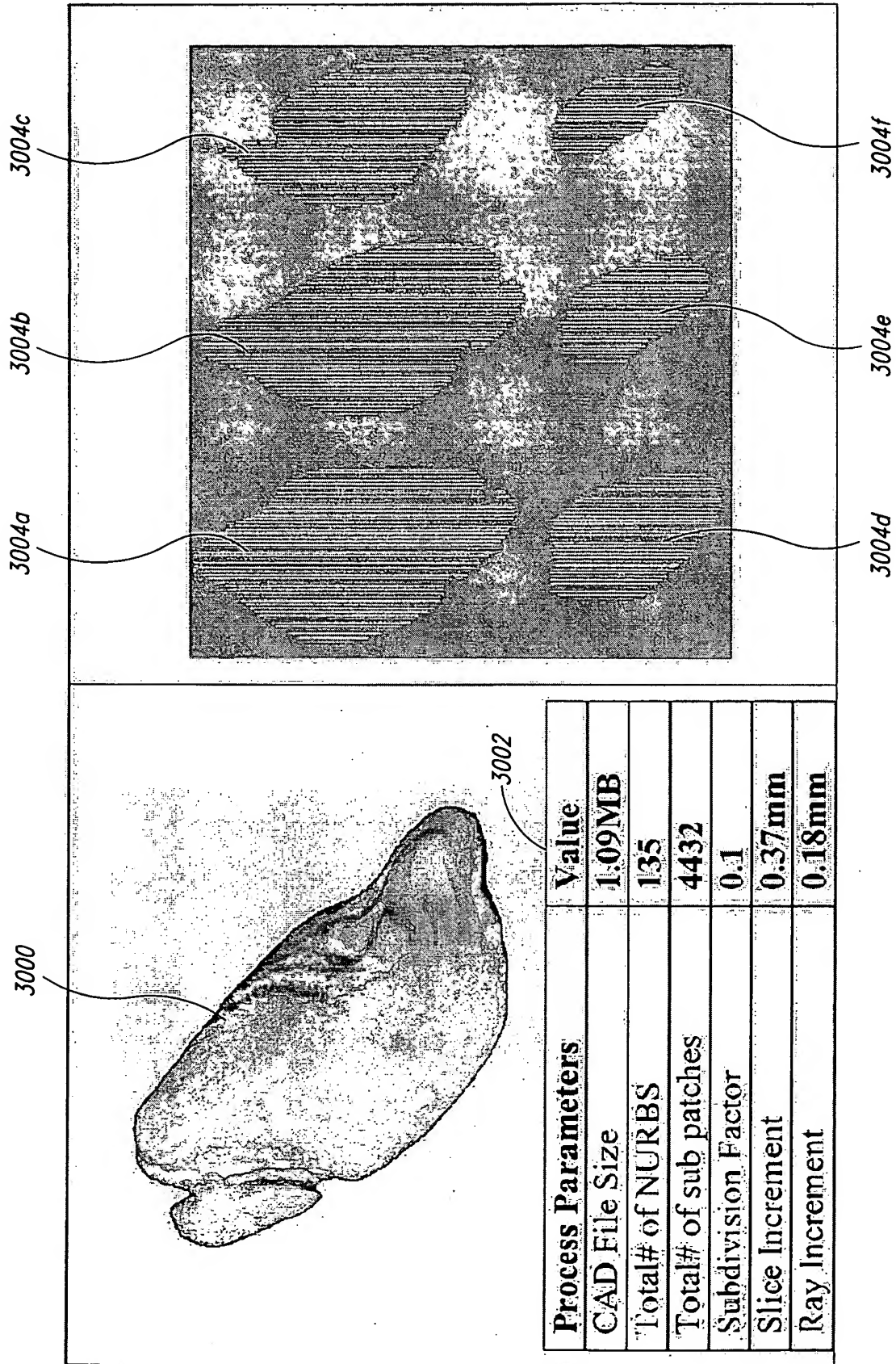


FIG. 29A

FIG. 29B

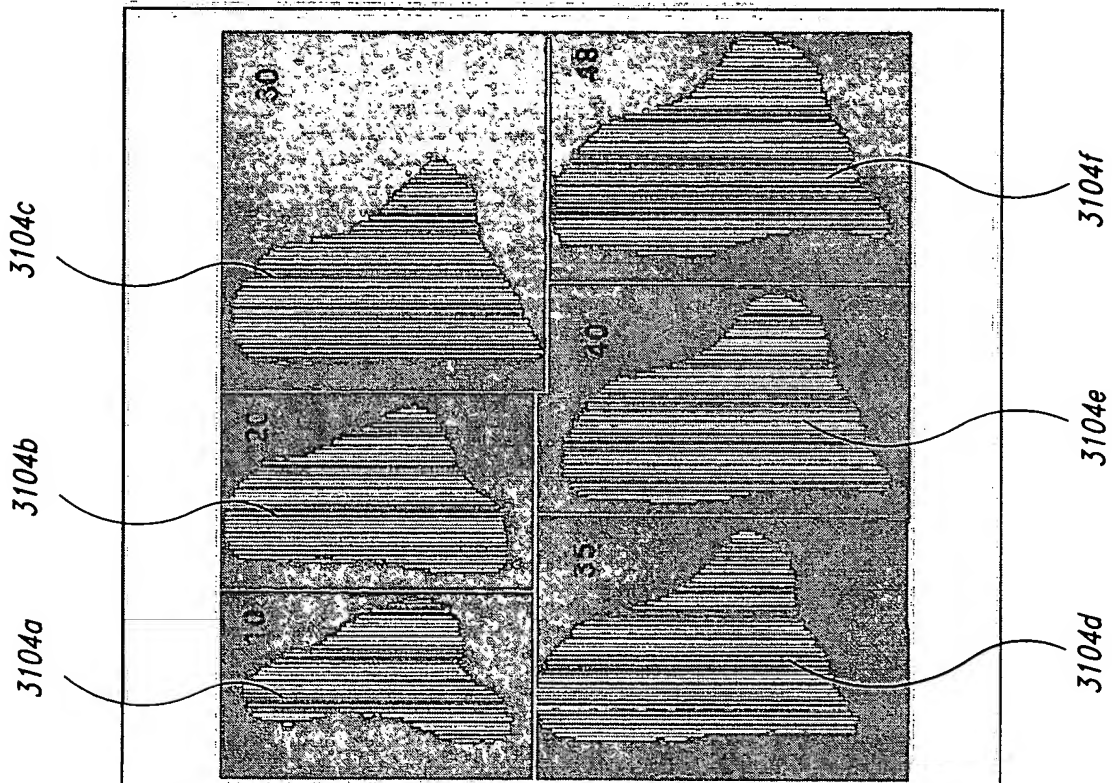
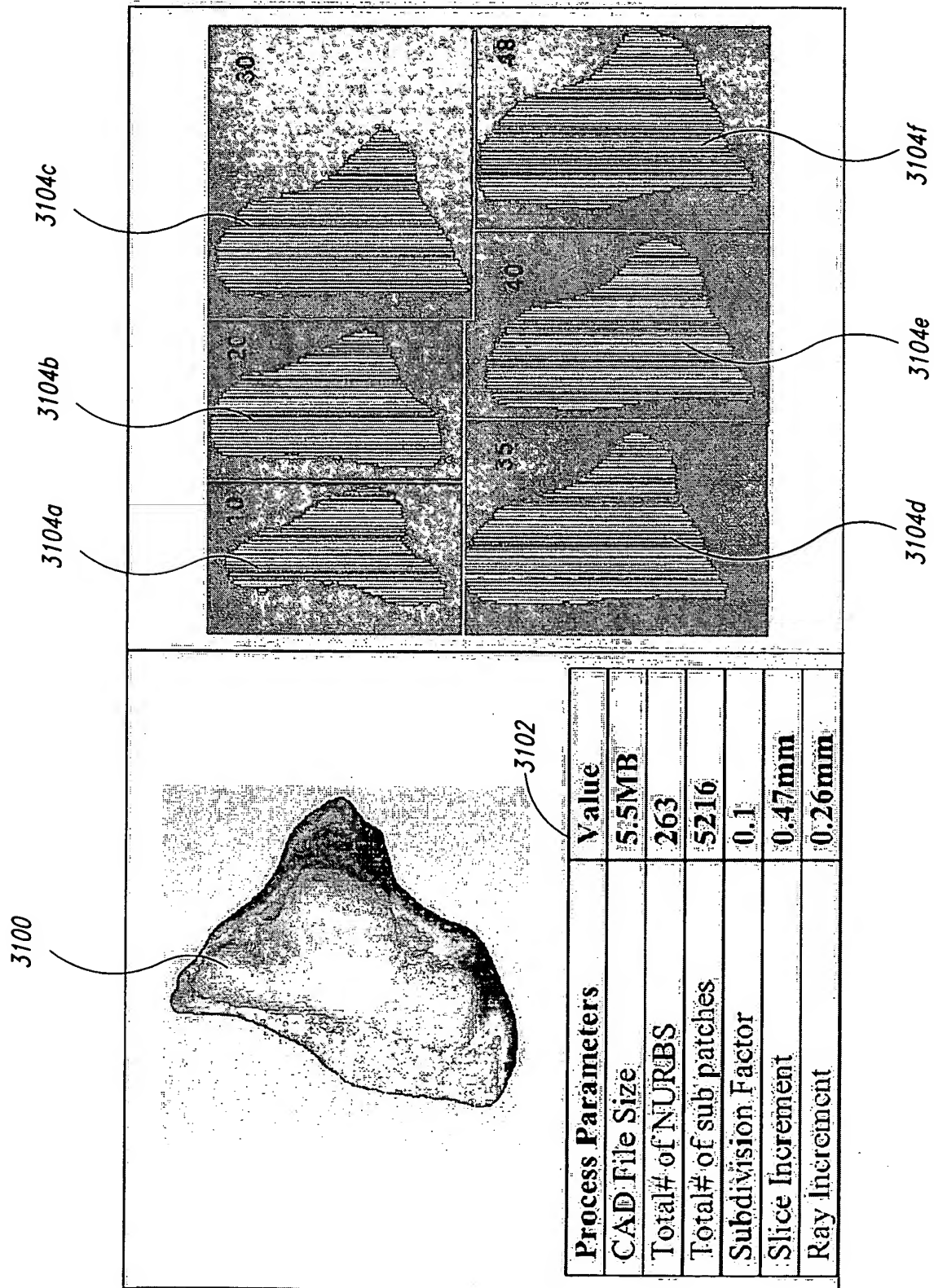
Title: APPARATUS, METHOD AND ARTICLE FOR DIRECT SLICING OF STEP BASED  
NURBS MODELS FOR SOLID FREEFORM FABRICATION

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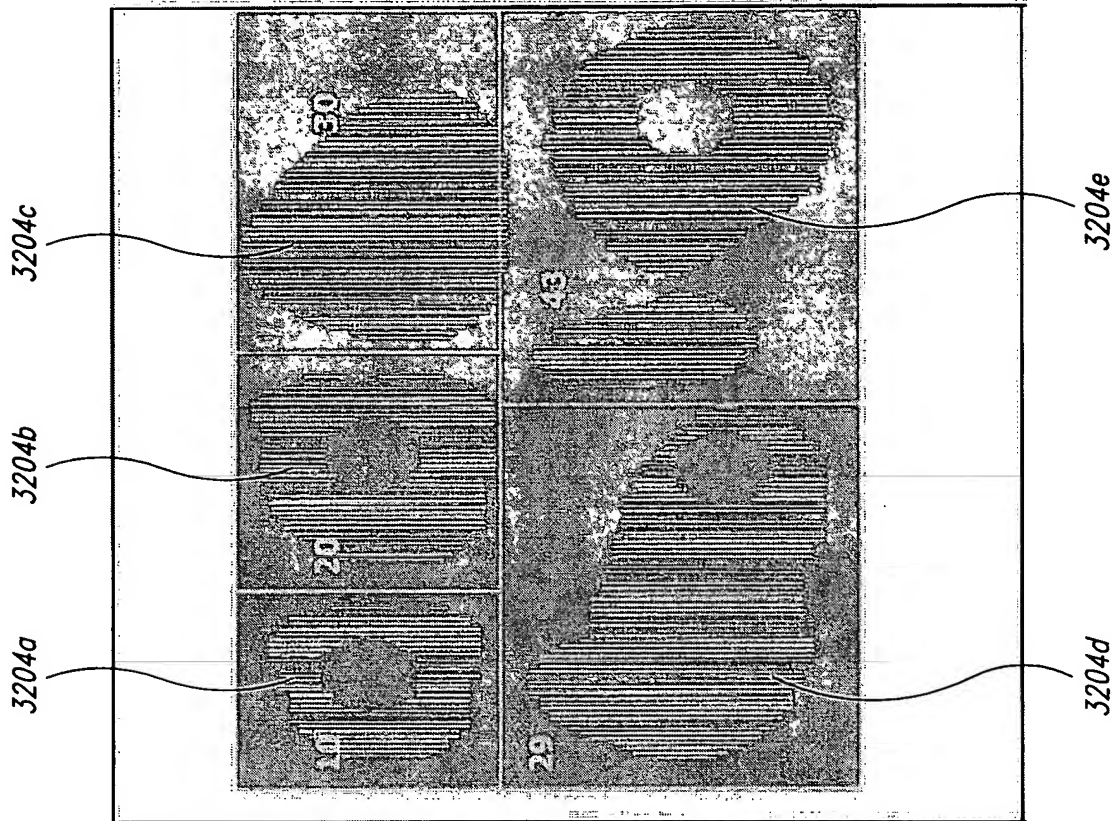
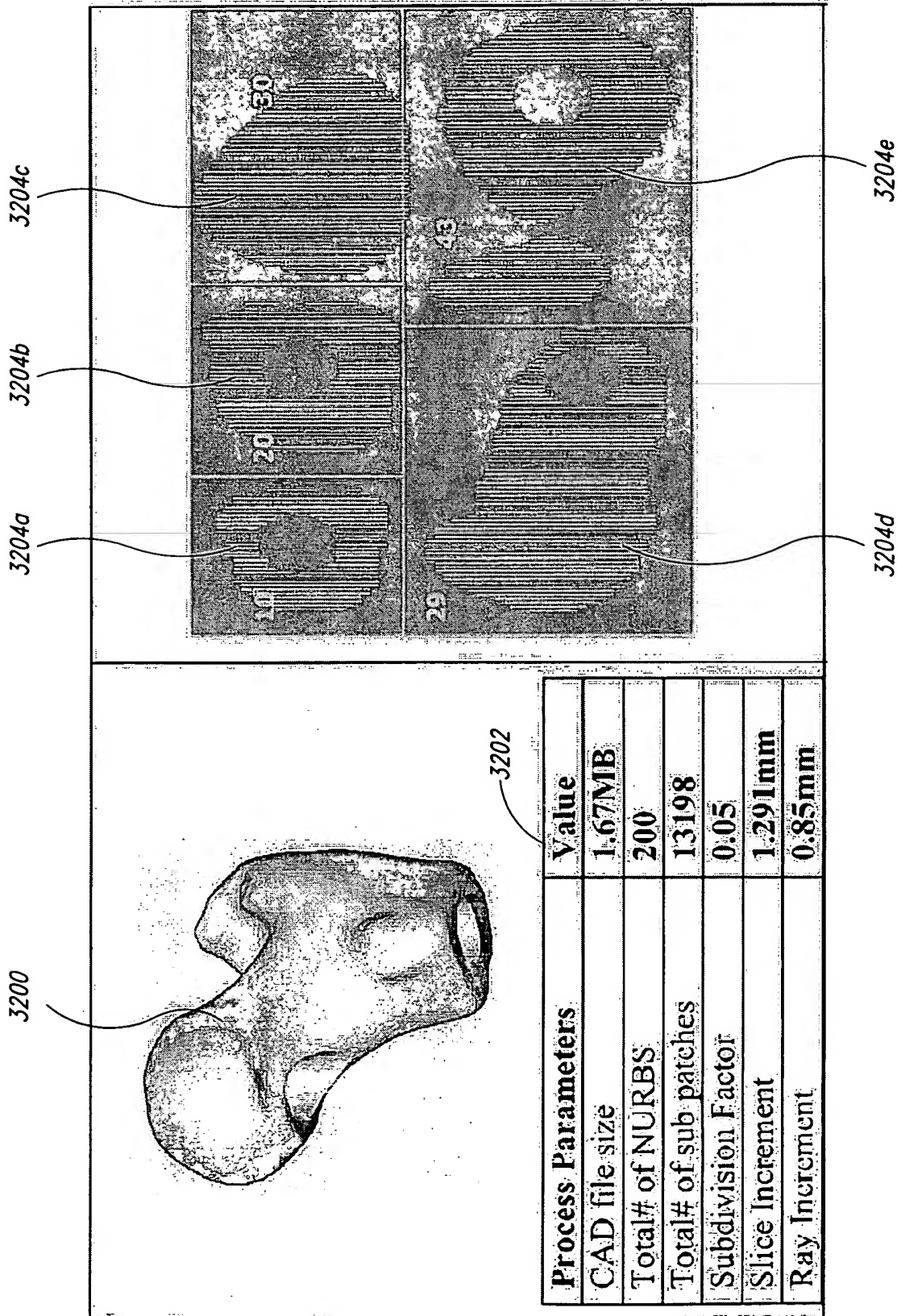
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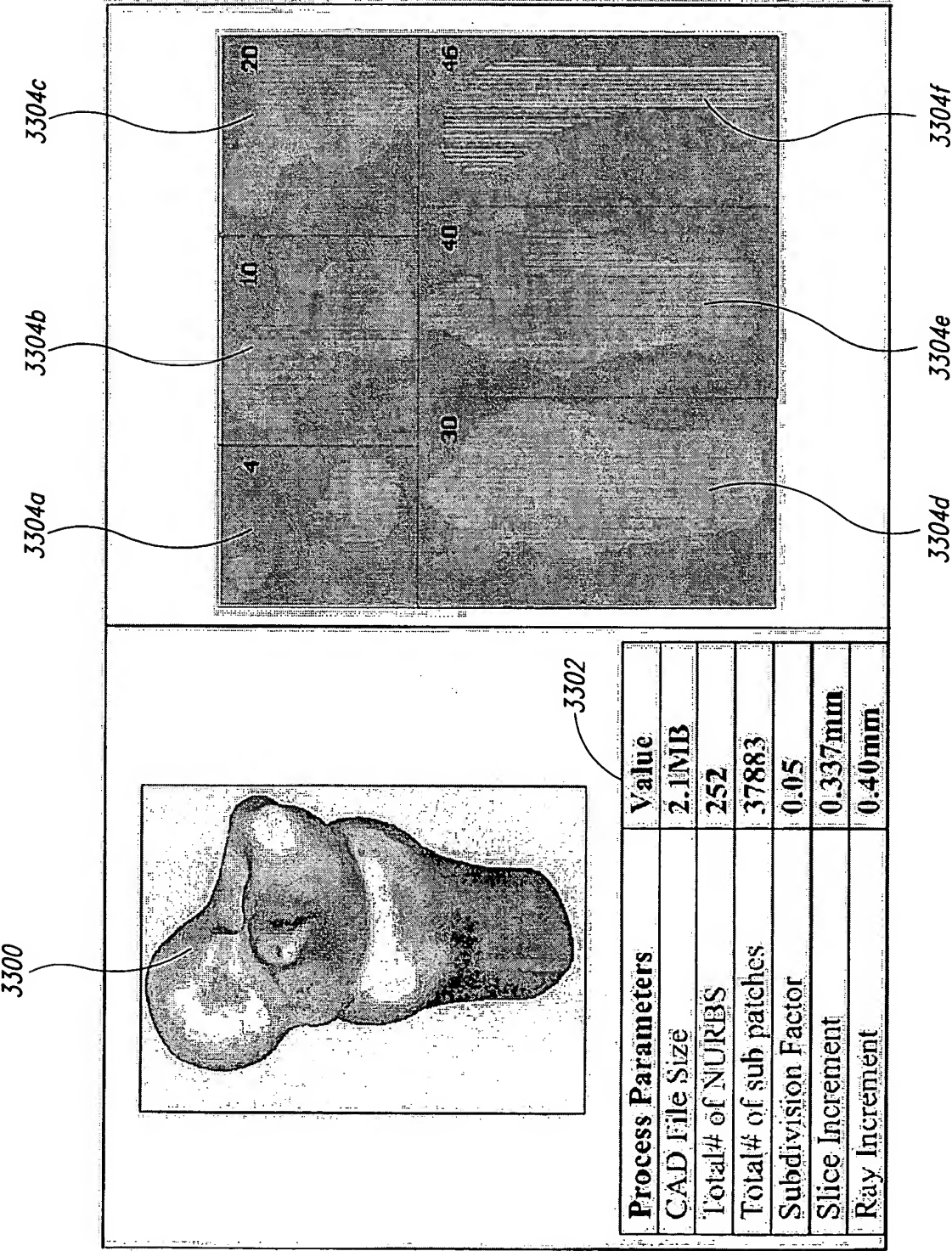


FIG. 33B

FIG. 33A